

ACCESS SERVICE

7. Special Access Service

Non-Competitive End-User Channel Terminations (and associated optional features and functions) are the Special Access Services offered under this tariff. Other Special Access Services required to complete a circuit are available as described in Section 1.1 preceding. (N)
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(N)

7.1 General

Special Access Service provides a transmission path to connect customer designated premises*, either directly, or through a Telephone Company Hub. In addition, Special Access provides a transmission path to connect a customer designated premises to a WATS Serving Office (WSO), to a wire center where connection to an advanced data service# occurs, or to a fiber meet location of a Verizon Dedicated SONET Ring Service or an IntelliLight® Optical Transport Service. Special Access Service includes all exchange access not utilizing Telephone Company end office switches, with the exception of WATS Access Line Service. (D)
(D)
(D)
(D)

The connections provided by Special Access Service can be either analog or digital. Analog connections are differentiated by spectrum and bandwidth. Digital connections are differentiated by bit rate.

7.1.1 Channel Types

There are multiple types of channels used to provide Special Access Services. Each type has its own characteristics. All are subdivided by one or more of the following: (C)

- Transmission specifications,
- Bandwidth,
- Speed (i.e., bit rate),
- Spectrum

Customers can order a basic channel and select, from a list of available transmission parameters and channel interfaces, those that they desire to meet specific communications requirements.

* When Telephone Company central office switches provide local exchange service which utilize a common line which must be interconnected for interstate communications (e.g., Centrex), the Telephone Company central office, where the local exchange service ends and the access connection begins, shall be treated as a customer premises for purposes of this tariff. The physical space from which other Telephone Company services are provided, whether or not on Telephone Company property, shall be treated as a customer premises. The central office where packet data services and data base services reside shall also be included in this definition.

(D)

Advanced data services include Telephone Company provided frame relay services and ATM-cell relay services. Connections to advanced data services are provided by the Telephone Company where such connections are technically and operationally feasible, as determined by the Telephone Company.

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.1 Channel Types (Cont'd)

For purposes of ordering channels, each has been identified as a type of Special Access Service. However, such identification is not intended to limit a customer's use of the channel nor to imply that the channel is limited to a particular use. For example, if a customer's equipment is capable of transmitting voice over a channel that is identified as a Metallic Service in this tariff, there is no restriction against doing so.

Following is a brief description of each type of channel:

Voice Grade - a channel for the transmission of analog signals within an approximate bandwidth of 300-3000 Hz.

WATS Access Line - a channel between a customer designated premises and a WATS Serving Office (WSO) for transmission of interstate or international traffic.

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.1 Channel Types (Cont'd)

Digital Data - a channel for the digital transmission of data at rates of 2.4, 4.8, 9.6, 19.2, 56 or 64 kbps.

High Capacity - a channel for the transmission of isochronous serial digital data at rates of 1.544 or 44.736 Mbps.

(D)

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(D)

Detailed descriptions of each of the channel types are provided in 7.2 following:

The customer also has the option of ordering Voice Grade and analog and digital high capacity facilities (i.e., Group, Supergroup, Mastergroup, 1.544 Mbps and 44.736 Mbps) to a Telephone Company Hub for multiplexing to individual channels of a lower capacity or bandwidth.

The customer may specify optional features for the individual channels derived from the facility to tailor the channel to meet specific communications requirements. Descriptions of the optional features and functions available are also set forth in 7.2 following.

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Rate Categories

The basic rate categories which apply to Special Access Service offered under this tariff are:

- Non-Competitive End User Channel Terminations, including WATS Access Connections (WACs) (described in 7.1.2(A) following)
- Optional Features and Functions (described in 7.1.2(C) following)
- Surcharge (described in 7.4.2 following)
- Message Station Equipment Recovery Charge (described in 7.4.3 following)

Additionally, rates and charges for detariffed Integrated Optical Service Riders may also apply to Special Access connected to Integrated Optical Service Riders. Rates and charges for Ports also apply to a Special Access DS3 connected to a point to point SONET service.

(C)

(D)

(D)

(A) Channel Termination

The Channel Termination rate category provides for the communications path between an end user customer designated premises and the serving wire center of that premises. Included as part of the Channel Termination is a standard channel interface arrangement which defines the technical characteristics associated with the type of facilities to which the access service is to be connected at the Point of Termination (POT) and the type of signaling capability, if any. The signaling capability itself is provided as an optional feature as set forth in (C) following. One Channel Termination charge applies per customer designated premises at which the channel is terminated. This charge will apply even if the customer designated premises and the serving wire center are collocated in a Telephone Company building. For WATS Access Line Service, the WATS Serving Office (WSO) is never considered a customer premises. A Channel Termination charge does not apply:

- at a DSR fiber meet location where high speed interconnection of the Company's facilities to the facilities of the customer or of a third party occurs.

The Channel Termination rate category may also be employed to provide for connections to other service offerings.

(Issued under Transmittal No. 1409)

Issued: July 17, 2020

Effective: August 1, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

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7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.2 Rate Categories (Cont'd)

(B) Channel Mileage

The Channel Mileage rate category is detariffed.

(C)

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Rate Categories (Cont'd)(C) Optional Features and Functions (Cont'd)

The Optional Features and Functions rate category provides for optional features and functions which may be added to a Non-Competitive End User Channel Termination to improve its quality or utility to meet specific communications requirements. These are not necessarily identifiable with specific equipment, but rather represent the end result in terms of performance characteristics which may be obtained. These characteristics may be obtained by using various combinations of equipment. Although the equipment necessary to perform a specified function may be installed at various locations along the path of the service, they will be charged as a single rate element.

The following is a list of the Telephone Company's Open Network Architecture (ONA) Special Access Basic Service Elements (BSEs) which provides a cross-reference to the generic name contained in Bell Operating Companies, Service Descriptions, ONA Services User Guide, July 31, 1991, from the product name utilized in this tariff.

<u>GENERIC NAME</u>	<u>VERIZON PRODUCT NAME</u>	(T)
Access to Clear Channel Transmission	Clear Channel Capability	(D)
Bridging	Bridging	
Conditioning	Conditioning	
Inband Signaling	Inband Signaling	(D)
Route Diversity	Route Diversity	
Secondary Channel Capability	Secondary Channel	

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory (T)
1300 I Street, NW, Washington, DC 20005 (T)

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.2 Rate Categories (Cont'd)(C) Optional Features and Functions (Cont'd)

Examples of Optional Features and Functions that are available include, but are not limited to, the following:

- Signaling Capability
- Hubbing Functions (some of which are detariffed) (C)
- Conditioning (D)

A Hub is a Telephone Company designated serving wire center which may perform bridging, multiplexing, and/or IntelliMux® reconfiguration functions. The bridging functions performed are to connect three or more customer designated premises in a multipoint arrangement. (D)

Descriptions for each of the available Optional Features and Functions are set forth in 7.2 following. Multiplexing functions and IntelliMux® Service are detariffed. (C)
(C)

7.1.3 Service Configurations

There are two types of service configurations over which Special Access Services are provided: two-point service and multi-point service.

(A) Two-Point Service

A two-point service connects two customer designated premises, either on a directly connected basis, or through a Hub. Two point service also connects a customer designated premises and a WATS Serving Office (WSO). (T)
(D)

Applicable rate elements under this tariff are: (C)
- Non-Competitive End User Channel Termination(s) (C)
(D)

- Optional Features and Functions (when applicable)
In addition, a Special Access Surcharge as set forth in 7.4.2 following, and a Message Station Equipment Recovery Charge as set forth in 7.4.3 following may be applicable. (T)

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

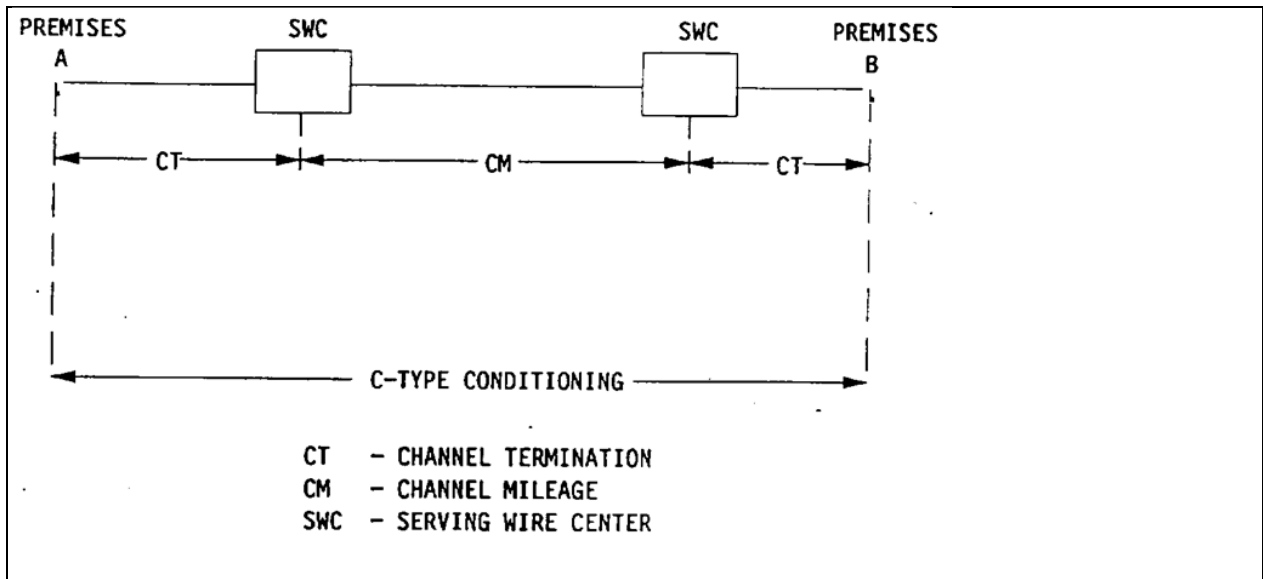
Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(A) Two-Point Service

The following diagram depicts a two-point Voice Grade service connecting two Non-Competitive End User Channel Terminations located 15 miles apart. The service is provided with C-Type Conditioning. (C)
(C)



Applicable rate elements under this tariff are:

- Non-Competitive End User Channel Terminations (2 applicable) (C)
- C-Type Conditioning Optional Feature (2 applicable) (D)

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory (T)
1300 I Street, NW, Washington, DC 20005 (T)

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service

Multipoint service connects three or more customer designated premises through a Telephone Company Hub. There is no limitation on the number of mid-links available with multipoint service. However, when more than three mid-links are provided in tandem, the quality of the service may be degraded. A mid-link is a channel between Hubs (i.e., bridging locations) and is detariffed. Only certain types of Special Access Service are provided as multipoint service. These are so designated in the Service Descriptions set forth in 7.2 following.

(N)

(N)

Multipoint service utilizing a customized technical specifications package as set forth in 7.2 following will be provided when technically possible. If the Telephone Company determines that the requested characteristics for a multi-point service are not compatible, the customer will be advised and given the opportunity to change the order.

When ordering, the customer will specify the desired bridging Hub(s) selected from the Exchange Carrier Association Tariff F.C.C. No. 4. This Tariff identifies type(s) of bridging functions which are available and the serving wire centers at which they are available.

Applicable Rate Elements under this tariff are:

(C)

- Non-Competitive End User Channel Terminations (one per customer designated premises)

(C)

(D)

|

(D)

- Bridging

- Additional Optional Features (when applicable).

In addition, the Special Access Surcharge as set forth in 7.4.2 following and a Message Station Equipment Recovery Charge as set forth in 7.4.3 following may be applicable.

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

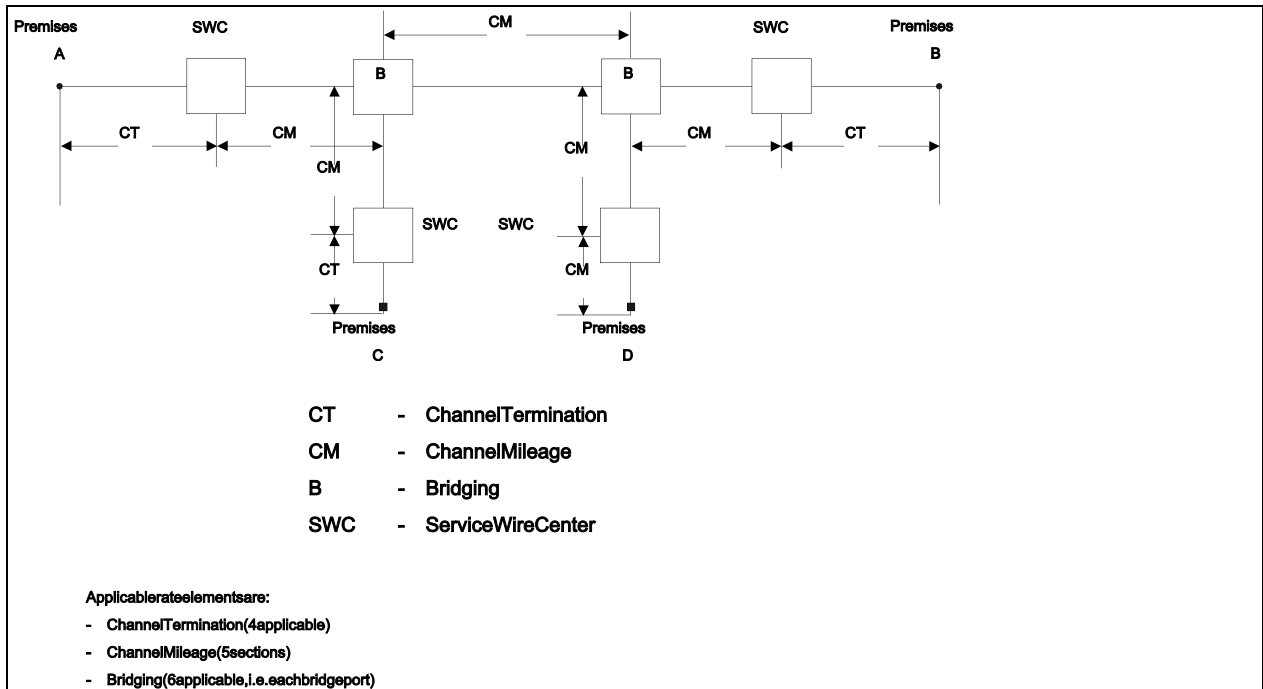
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.3 Service Configurations (Cont'd)(B) Multipoint Service (Cont'd)

Example: Voice Grade multipoint service connecting four Non-Competitive End User Channel Terminations via two customer specified bridging hubs. The rate elements under this tariff are the Non-Competitive End User Channel Terminations and any associated Bridging.

(C)
(N)
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(N)



(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.4 Alternate Use

Alternate Use occurs when a service is arranged by the Telephone Company so that the customer can select different types of transmission at different times. A customer may use a service in any privately beneficial manner. However, where technical or engineering changes are required to effectuate an alternate use, the Telephone Company will make such special arrangements available on an individual case basis.

The arrangement required to transfer the service from one operation to the other (i.e., the transfer relay and control leads) will be rated and provided on an individual case basis and filed in Section 12, Specialized Service or Arrangements. The customer will pay the stated tariff rates for the Access Service rate elements for the service ordered (i.e., Non-Competitive End User Channel Terminations and Optional Features [if any].

(C)
(D)7.1.5 Special Facilities Routing

A customer may request that the facilities used to provide Special Access Service be specially routed. The regulations, rates and charges for Special Facilities Routing (i.e., Avoidance, Diversity and Cable-Only) are set forth in this section and in 11. following:

7.1.6 Design Layout Report

At the request of the customer, the Telephone Company will provide to the customer the make-up of the facilities and services provided under this tariff as Special Access Service to aid the customer in designing its overall service. This information will be provided in the form of a Design Layout Report. The Design Layout Report will be provided to the customer at no charge, and will be reissued or updated whenever these facilities are materially changed.

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory (T)
1300 I Street, NW, Washington, DC 20005 (T)

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7. Special Access Service (Cont'd)7.1 General (Cont'd)7.1.7 Acceptance Testing

At no additional charge, the Telephone Company will, at the customer's request, cooperatively test, at the time of installation, the following parameters:

- (A) For Voice Grade analog and WATS Access Line services, acceptance tests will include test for loss, 3-tone slope, DC continuity, operational signaling, C-notched noise and C-message noise when these parameters are applicable and specified in the order for service. Additionally, for Voice Grade services, a balance (improved loss) test will be made if the customer has ordered the improved loss optional feature.
- (B) For other analog services and for digital services (i.e., Digital Data High Capacity) acceptance tests will include tests for the parameters applicable to the service as specified in the order for service. (D)

In addition to the above tests, Additional Cooperative Acceptance Testing for Voice Grade Service to test other parameters, as described in 13.3.4(B)(1) following, is available at the customer's request. All test results will be made available to the customer upon request.

7.1.8 Ordering Options and Conditions

Special Access Service is ordered under the Access Order provisions set forth in 5. preceding. Also included in that section are other charges which may be associated with ordering Special Access Service (e.g., Service Date Change Charges, Cancellation Charges, etc.)

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

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7. Special Access Service (Cont'd)

7.1 General (Cont'd)

7.1.9 Special Access Surcharge

In addition, a Special Access Surcharge as set forth in 7.5.14 following will apply to jurisdictionally interstate private line facilities provided by the Telephone Company to a customer, in accordance with regulations as set forth in 7.4.2 following.

7.1.10 Connections with Other Network Services

Special Access Service may be ordered to allow connections between the end user premises and serving wire center which provides Other Network Services.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

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7. Special Access Service (Cont'd)7.2 Service Descriptions

For the purposes of ordering, these are the categories of Special Access Service: (T)
(T)

Voice Grade (VG)
WATS Access Connection (WAC)

Digital Data (DA)
High Capacity (HC)

(D)

Each service consists of a basic channel to which a technical specifications package (customized or predefined), channel interface(s) and, when desired, optional features and functions are added to construct the service desired by the customer. Each of the components of the service are described in this section.

Customized technical specifications packages will be provided where technically feasible. If the Telephone Company determines that the requested parameter specifications are not compatible, the customer will be advised and given the opportunity to change the order.

When a customized channel is ordered the customer will be notified whether Additional Engineering Charges apply. In such cases, the customer will be given an estimate of the hours to be billed before any further action is taken on the order.

The channel description specifies the characteristics of the basic channel and indicates whether the channel is provided between customer designated premises or between a customer designated premises and a Telephone Company Hub where bridging or multiplexing functions are performed.

Information pertaining to the technical specifications packages indicates the transmission parameters that are available with each package. This information is displayed in a matrix with the transmission parameters listed down the left side and the packages listed across the top. Each package is identified by a code, e.g., VGC. The first two letters of the code indicate the category of Special Access Service to which the parameters are applicable. These two letter codes are shown above in parentheses following the category of Special Access Service. The letter "C" following the two letter code indicates the technical specifications package for a customized service. A numeric or alpha-numeric designation following the two letter code indicates the specific predefined package. For a customized service, the customer may select any parameters available with that category of service as long as the parameters are compatible. When appropriate, the Technical Reference which contains detailed specifications for the parameters is shown following the matrix.

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)

Channel interfaces at each point of termination on a two-point service may be symmetrical or asymmetrical. On a multipoint service they may also be symmetrical or asymmetrical. However, communications can only be provided between points of termination with compatible channel interfaces. Only certain channel interfaces are compatible. These are set forth in 7.3.5 following in a combination format.

Only certain channel interface combinations are available with the predefined technical specifications packages. These are delineated in the Technical References set forth at the end of this 7.2. When a customized channel is requested, all channel interface combinations available with the specified type of service are available with the customized channel.

The optional features and functions available with each type of Non-Competitive End User Channel Termination are described in this section. The optional features and functions information also indicates with which technical specifications packages they are available. Such information is displayed in a matrix with the optional feature or function listed down the left side and the technical specifications package listed across the top. (C)
(C)

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory (T)
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)

The Telephone Company will maintain existing transmission specifications on services installed prior to the effective date of this tariff except that the existing services with performance specifications exceeding the standard listed in this provision will be maintained at the performance levels specified in this tariff. All services installed after the effective date of this tariff will conform to the transmission specifications standards contained in this tariff or in the following Technical References for each category of service:

Voice Grade	TR-NWT-000335, Issue 3	(D)
WATS Access Line	GR-334-CORE, Issue 1	(D)
		(D)
		(D)
		(D)
		(D)
		(D)
Digital Data	TR-NWT-000341, Issue 2	
Secondary Channel	TR-NPL-000157, Issue 2	(T) (x)
	PUB 62310	

(x) TR-NPL-000157, Issue 2 replaces TR-NPL-000157, Issue 1 in its entirety.

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

High Capacity

GR-54-CORE, Issue 1
GR-342-CORE, Issue 1
GR-499-CORE, Issue 4

(T) (x)
(D)

(D)

(x) GR-499-CORE, Issue 4, replaces GR-499-CORE, Issue 3, in its entirety.

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

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7. Special Access Service (Cont'd)
7.2 Service Descriptions (Cont'd)
7.2.1 Reserved for Future Use

(C)
(D)

(D)

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(D)

(Issued under Transmittal No. 1363)

Issued: December 18, 2017

Effective: January 2, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

(D)

(D)

(D)

(Issued under Transmittal No. 1363)

Issued: December 18, 2017

Effective: January 2, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

- 7. Special Access Service (Cont'd)
 - 7.2 Service Descriptions (Cont'd)
 - 7.2.2 Reserved for Future Use

(C)
(D)

(D)

(Issued under Transmittal No. 1363)

Issued: December 18, 2017

Effective: January 2, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service#

(A) Basic Channel Description

A Voice Grade channel is a channel which provides voice frequency transmission capability in the nominal frequency range of 300 to 3000 Hz and may be terminated as analog two-wire or four-wire, or, where facilities permit, as a four-wire in a digital format when used in conjunction with another Voice Grade Channel Termination at the other end. Voice Grade channels are provided between customer designated premises or between a customer designated premises and a Telephone Company Hub.

Service availability limited. Refer to # footnote on Page 14-112.

(N)

Certain material previously found on this page can now be found on Original Page 14-112.

(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

Material previously found on this page can now be found on Original Page 14-112.

(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

Material previously found on this page can now be found on Original Page 14-112.

(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(B) Technical Specifications Packages

<u>Parameter</u>	<u>C*</u>	<u>Package VG-</u>											
		<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
Attenuation													
Distortion	X	X	X	X	X	X	X	X	X	X	X	X	X
C-Message Noise	X	X	X	X	X	X	X	X	X	X	X	X	X
Echo Control	X	X	X	X		X		X	X			X	X
Envelope Delay													
Distortion	X						X	X	X	X	X	X	X
Frequency Shift	X						X	X	X	X	X	X	X
Impulse Noise	X					X	X	X	X	X	X	X	X
Intermodulation													
Distortion		X						X	X	X	X	X	X
Loss Deviation	X	X	X	X	X	X	X	X	X	X	X	X	X
Phase Hits, Gain													
Hits, and													
Dropouts													X
Phase Jitter		X						X	X	X	X	X	X
Signal-to-C													
Message Noise													X
Signal-to-C													
Notch Noise	X					X	X	X	X	X	X	X	X

* The desired parameters are selected by the customer from the list of available parameters.

Service availability limited. Refer to # footnote on Page 14-112.

(C)

(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(B) Technical Specifications Packages (Cont'd)

The technical specifications for these parameters (except for dropouts, gain hits, and phase hits) are delineated in Technical Reference TR-NWT-000335, Issue 3.

(C) Channel Interfaces

The following channel interfaces for Voice Grade service do not require signaling capability: AH, DA, DB, DD, DE, DS, NO, PR and TF.

The following channel interfaces for Voice Grade service require signaling capability: AB, AC, CT, DX, DY, EA, EB, EC, EX, GO, GS, LA, LB, LC, LO, LR, LS, RV and SF.

Compatible channel interfaces are set forth in 7.3.5(C) following.

(D) Optional Features and Functions(1) Central Office Bridging Capability

- (a) Voice Bridging (two-wire and four-wire)
- (b) Telephoto Bridging (two-wire and four-wire)

Service availability limited. Refer to # footnote on Page 14-112.

(C)

(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(1) Central Office Bridging Capability (Cont'd)

(e) Telemetry and Alarm Bridging

Split Band, Active Bridging

Active Bridging

(2) Reserved(3) Conditioning

Conditioning provides more specific transmission characteristics for Voice Grade services. C-Type conditioning controls attenuation distortion and envelope delay distortion. Sealing Current helps maintain continuity on dry metallic loops.

In addition, a customer may require that either the attenuation distortion or the envelope delay distortion, or both, be improved to more stringent specifications than those provided for C-Type conditioning. In these cases the customer has the option of ordering either Improved Attenuation Distortion or Improved Envelope Delay Distortion, or both, as needed.

For two-point services, the parameters apply to each service. For multipoint services, the parameters apply to each mid link or end link. C-Type conditioning and Data Capability may be combined on the same service.

Service availability limited. Refer to # footnote on Page 14-112.

(C)

(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(3) Conditioning (Cont'd)(a) C-Type Conditioning

C-Type Conditioning is provided for the additional control of attenuation distortion and envelope delay distortion on data services. The attenuation distortion and envelope delay distortion specifications for C-Type Conditioning are:

Attenuation Distortion
(Frequency Response)
Relative to 1004 Hz

Frequency Variation
Range (Hz) (dB)

504-2804	-1.0 to +3.0
304-3004	-2.0 to +6.0

Envelope Delay
Distortion
Variation
Frequency (micro-
Range (Hz) seconds)

1004-2604	≤ 500
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604-2604	≤ 1500
504-2804	≤ 3000

Service availability limited. Refer to # footnote on Page 14-112.

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(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(3) Conditioning (Cont'd)(b) Improved Attenuation Distortion

Improved attenuation distortion is provided for additional control of attenuation distortion. The improved attenuation distortion specifications are:

Attenuation Distortion
(Frequency Response)
Relative to 1004 Hz

Frequency Variation
Range (Hz) (dB)

404-2804	-1.0 to +2.0
304-3004	-1.0 to +3.0
304-3204	-2.0 to +6.0

(c) Improved Envelope Delay Distortion

Improved envelope delay distortion is provided for additional control of envelope delay distortion. The improved envelope delay distortion specifications are:

<u>Envelope Delay Distortion</u>	
<u>Frequency Range (Hz)</u>	<u>Variation (micro-seconds)</u>
1004-2604	≤ 100
804-2604	≤ 200
604-2604	≤ 300
504-2804	≤ 600
504-3004	≤ 3000

Service availability limited. Refer to # footnote on Page 14-112.

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(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(3) Conditioning (Cont'd)(d) Sealing Current Conditioning

Sealing Current Conditioning is provided to help maintain continuity on dry metallic loops. It is usually associated with four-wire DA or NO type channel interfaces.

(4) Customer Specified Premises Receive Level

This option allows the customer to specify the receive level at the Point of Termination. The level must be within a specific range on effective four-wire transmission. The ranges are delineated in Technical Reference TR-NWT-000335, Issue 3.

Service availability limited. Refer to # footnote on Page 14-112.

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(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(5) Improved Termination and Improved Return Loss

- (a) Improved Termination - On Effective Four-Wire Transmission at Four-Wire Point of Termination (applicable to each two-wire port): Provides for a fixed 600 ohm impedance, variable level range and simplex reversal. Telephone Company equipment is required at the customer's premises where this option is ordered. The Improved Termination parameters are delineated in Technical Reference TR-NWT-000335, Issue 3.
- (b) Improved Return Loss - On Effective Two-Wire Transmission at Two-Wire Point of Termination: Provides for more stringent Echo Control Specifications. In order for this option to be applicable, the transmission path must be four-wire at one POT and two-wire at the other POT. Placement of Telephone Company equipment may be required at the customer's premises with the two-wire POT. The Improved Return Loss parameters are delineated in Technical Reference TR-NWT-000335, Issue 3.

(6) Data Capability

Data Capability provides transmission characteristics suitable for data communications. Specifically, Data Capability provides for the control of Signal to C-Notched Noise Ratio and intermodulation distortion. It is available for two-point services or multipoint services.

The Signal to C-Notched Noise Ratio and intermodulation distortion parameters for Data Capability are:

- Signal to C-Notched Noise Ratio is equal to or greater than 32dB

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Effective: March 26, 2021

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3 Voice Grade Service# (Cont'd)

(D) Optional Features and Functions (Cont'd)

(6) Data Capability (Cont'd)

- Intermodulation distortion:
- Signal to second order modulation products (R2)
is equal to or greater than 38dB
- Signal to third order modulation products (R3)
is equal to or greater than 42dB

When a service equipped with Data Capability is used for voice communications, the quality of the voice transmission may not be satisfactory.

(7) Reserved.

Service availability limited. Refer to # footnote on Page 14-112.

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Effective: March 26, 2021

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(8) Signaling Capability

Signaling Capability provides for the process by which one customer premises alerts another customer premises on the same service with which it wishes to communicate.

(9) Reserved(10) Reserved

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package VG-												
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
C-Type Conditioning	X					X	X	X	X	X	X		
Central Office													
Bridging													
Capability	X		X			X	X				X	X	X

Service availability limited. Refer to # footnote on Page 14-112.

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(Issued under Transmittal No. 1418)

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Effective: March 26, 2021

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3 Voice Grade Service# (Cont'd)(D) Optional Features and Functions (Cont'd)

	Available with Technical Specifications Package VG-												
	<u>C</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>	<u>7</u>	<u>8</u>	<u>9</u>	<u>10</u>	<u>11</u>	<u>12</u>
Data Capability	X						X	X			X		
Improved Termination													
For Effective													
Four-Wire													
Transmission	X	X	X	X	X	X	X	X	X	X	X	X	X
Improved Return Loss													
For Effective													
Two-Wire													
Transmission	X		X	X			X	X			X		
Sealing Current													
Conditioning													
For Effective													
Four-Wire													
Transmission	X					X	X				X		
Signaling Capability	X	X	X	X				X	X	X			

(11) Effective Four-Wire Transmission with Two-Wire Interface

When a customer requests that an effective Four-Wire channel be terminated with a Two-Wire interface at the customer designated premises, then this optional feature applies. Placement of Telephone Company Equipment (Hybrid) is required at the customer's premises to convert the Four-Wire channel to the Two-Wire POT. When this option is ordered, a Four-Wire channel termination charge applies. Per the voice grade technical references, certain voice grade service are always provisioned as Four-Wire services and will be billed as a Four-Wire Channel Termination.

Service availability limited. Refer to # footnote on Page 14-112.

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(Issued under Transmittal No. 1418)

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Effective: March 26, 2021

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3.1 WATS Access Line Service#(A) Basic Channel Description

A WATS Access Line Service is a channel which provides voice frequency transmission capability. The service provides customer premise to customer premise connection through the combination of a WATS Access Connection (WAC), a dedicated channel between the customer's end user's premises and a WATS Serving Office (WSO) equipped with Lineside BSA or Trunkside BSAs service as set forth in Section 6 preceding. The WAC is dedicated to one customer who has the ability to transport traffic interstate.

Certain material previously found on this page can now be found on Original Page 14-112.

Service availability limited. Refer to # footnote on Page 14-112. (N)

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Issued: March 11, 2021

Effective: March 26, 2021

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1300 I Street, NW, Washington, DC 20005

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Issued: March 11, 2021

Effective: March 26, 2021

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Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
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7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

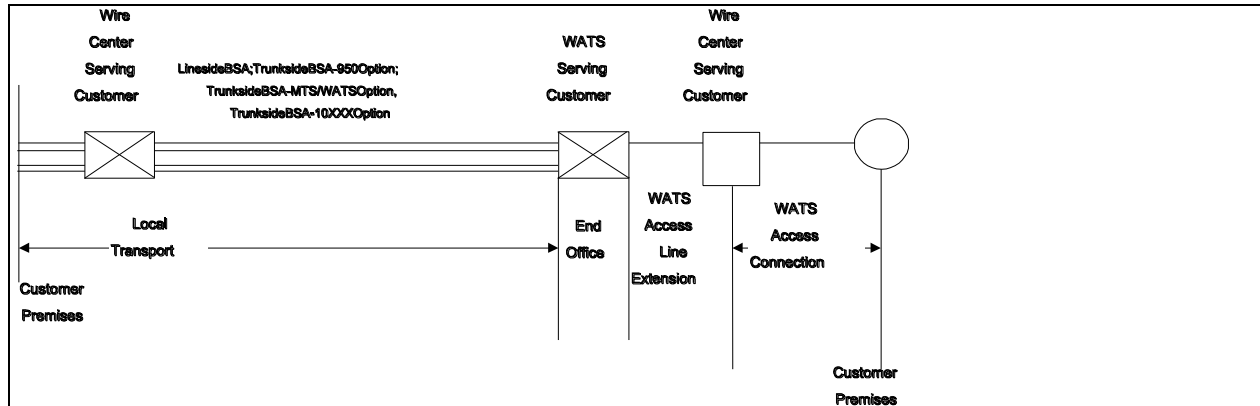
Effective: December 17, 2019

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3.1 WATS Access Line Service# (Cont'd)(A) Basic Channel Description (Cont'd)

The WAC is comprised of a Channel Termination from the customer's end user serving wire center to the customer's end user premises.



WATS Access Line Service is service arranged for originating, terminating or two way transmission to or from an end user's premises at the option of the customer. It is provided with rotary dial or dual tone multifrequency address signaling and with either loop start or ground start signaling. Two way WATS Access Line Service is subject to recording capability and central office capacity.

Service availability limited. Refer to # footnote on Page 14-112.

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(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3.1 WATS Access Line Service# (Cont'd)(A) Basic Channel Description (Cont'd)

Originating only and Two Way (originating only) WATS Access Line Service customers, at their option and at no charge, may be provided access to test lines in their local central office to test the WATS Access Connection. Access to two types of lines is available, balance (Type 100) and milliwatt (Type 102). Where available, this feature is only provided in Telephone Company electronic end offices in which WATS Access Connections are provided.

(B) Technical Specifications Packages

<u>Parameters</u>	<u>Packages WAL -</u>		
	<u>1</u>	<u>2</u>	<u>3</u>
Attenuation Distortion	X	X	
Bit Error Rate			X
C-Message Noise	X	X	
Echo Control	X	X	
Envelop Delay Distortion	X	X	
Frequency Shift	X	X	
Impulse Noise	X	X	
Intermodulation Distortion	X	X	
Loss Deviation	X	X	
Phase Jitter	X	X	
Signal-to-C Notch Noise	X	X	

WACs are offered as either effective two-wire, effective four-wire, high capacity or improved two-wire access connections. The technical limitations are delineated in Technical Reference GR-334-CORE, Issue 1.

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(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3.1 WATS Access Line Service# (Cont'd)

(C) Channel Interfaces

Compatible channel interfaces are set forth in
7.3.5(D) following.

(D) Optional Features and Functions

(1) Central Office Bridging Capability

(a) Voice Bridging (two-wire and four-wire)

(2) Improved Two-Wire Transmission Specifications

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(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

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7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.3.1 WATS Access Line Service# (Cont'd)(E) Service Provision Restrictions

The provision of WATS Access Line Service, as described in (A), (B), (C) and (D) preceding, is subject to individual state restrictions governing the provision of intrastate access services and intrastate competition in general. Individual state restrictions are as follows:

(1) State of New Jersey

Interexchange carriers are not authorized to offer intrastate intraLATA WATS Service in New Jersey by order of the New Jersey Board of Public Utilities. Intrastate intraLATA calling must conform to the rules and regulations of the New Jersey Board of Public Utilities. Originating intrastate intraLATA WATS calls are subject to blocking or completion by Verizon New Jersey Inc., as directed or allowed by the New Jersey Board of Public Utilities. Terminating intrastate interLATA (Toll Free*) calls should be returned by the customer to Verizon New Jersey Inc. for completion, or if this is not possible due to technical limitations and such calls are completed, billing information should be returned to Verizon New Jersey Inc. to allow Verizon New Jersey Inc. to bill such calls as its own traffic.

* "Toll Free" service includes any access service which utilizes the following NPA's: 800, 888, 877, 866, 855, 844, 833, and 822 as they become available to the industry.

Service availability limited. Refer to # footnote on Page 14-112.

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(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.3.1 WATS Access Line Service# (Cont'd)

(E) Service Provision Restrictions

(2) State of Virginia

Interexchange carriers are not authorized to offer intraLATA WATS Service in Virginia by order of the Virginia State Corporation Commission. IntraLATA WATS calls will either be blocked, or diverted to Verizon Virginia LLC for completion, at the customer's option.

(F) WATS Access Line Extensions (WALE)

When WATS Access Line Service is ordered to the end office that normally serves the customer and that office is without WATS screening capability, service is provided from the nearest end office with WATS screening capability (WSO).

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(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

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7.2 Service Descriptions (Cont'd)

7.2.4 Reserved for Future Use

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(Issued under Transmittal No. 1363)

Issued: December 18, 2017

Effective: January 2, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1363)

Issued: December 18, 2017

Effective: January 2, 2018

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1363)

Issued: December 18, 2017

Effective: January 2, 2018

Vice President, Federal Regulatory
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ACCESS SERVICE

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7.2 Service Descriptions (Cont'd)

7.2.5 Reserved for Future Use

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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7. Special Access Service (Cont'd)

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Issued: December 2, 2019

Effective: December 17, 2019

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Issued: December 2, 2019

Effective: December 17, 2019

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7.2 Service Descriptions (Cont'd)

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Issued: December 2, 2019

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7. Special Access Service (Cont'd)

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Effective: December 17, 2019

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7.2 Service Descriptions (Cont'd)

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Effective: December 17, 2019

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Effective: December 17, 2019

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Issued: December 2, 2019

Effective: December 17, 2019

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(Issued under Transmittal No. 1400)

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Effective: December 17, 2019

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Effective: December 17, 2019

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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Issued: December 2, 2019

Effective: December 17, 2019

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Issued: December 2, 2019

Effective: December 17, 2019

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Issued: December 2, 2019

Effective: December 17, 2019

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Issued: December 2, 2019

Effective: December 17, 2019

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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(Issued under Transmittal No. 1259)

Issued: January 7, 2014

Effective: January 22, 2014

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1259)

Issued: January 7, 2014

Effective: January 22, 2014

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

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ACCESS SERVICE

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7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1259)

Issued: January 7, 2014

Effective: January 22, 2014

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

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(Issued under Transmittal No. 1259)

Issued: January 7, 2014

Effective: January 22, 2014

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

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ACCESS SERVICE

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(Issued under Transmittal No. 1259)

Issued: January 7, 2014

Effective: January 22, 2014

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Digital Data Service#(A) Basic Channel Description

A Digital Data channel is a channel for duplex transmission of synchronous serial data at the rate of 2.4, 4.8, 9.6, 19.2, 56 or 64 kbps. The actual bit rate is a function of the channel interface selected by the customer. The channel provides a synchronous service with timing provided by the Telephone Company through the Telephone Company's facilities to the customer in the received bit stream. Digital Data channels are only available via Telephone Company designated hubs and are provided between customer designated premises between a customer designated premises and a Telephone Company Hub, or between a customer designated premises and a wire center where connection to an advanced data service## occurs. Subrating is not available at the 19.2 kbps speed and the 64 kbps speed requires B8ZS Line Code Formatted Signal.

Service availability limited. Refer to # footnote on Page 14-112.

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Advanced data services include frame relay services and ATM-cell relay services.

(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
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Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)

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(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)
7.2 Service Descriptions (Cont'd)

(D)

(D)

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Digital Data Service# (Cont'd)(B) Technical Specifications Packages

<u>Parameter</u>	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	<u>5</u>	<u>6</u>
Error-Free Seconds	$\frac{1}{X}$	$\frac{2}{X}$	$\frac{3}{X}$	$\frac{4}{X}$	$\frac{5}{X}$	$\frac{6}{X}$

The Telephone Company will provide a channel capable of meeting a monthly average performance equal to or greater than 99.875% error-free seconds while the channel is in service, if it is measured through a CSU equivalent which is designed, manufactured and maintained to conform with the specifications contained in Technical Reference PUB 62310.

Voltages which are compatible with Digital Data Service are delineated in Technical Reference TR-NWT-000341, Issue 2.

Channel Interface requirements necessary for Secondary Channel Capability are contained in Technical Reference TR-NPL-000157, Issue 2.

Service availability limited. Refer to # footnote on Page 14-112.

(C)

(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Digital Data Service# (Cont'd)(C) Channel Interfaces

The following channel interfaces (CIs) define the bit rates that are available for a Digital Data channel:

<u>CI</u>	<u>Bit Rate</u>
DU-24	2.4 kbps
DU-48	4.8 kbps
DU-96	9.6 kbps
DU-19	19.2 kbps
DU-56	56.0 kbps
DU-64	64.0 kbps

Compatible channel interfaces are set forth in 7.3.5(I) following.

(D) Optional Features and Functions

- (1) Central Office Bridging Capability
- (2) Reserved

(3) Secondary Channel

Secondary Channel (SC) is an optional arrangement which provides a derived lower speed Digital Data companion channel which is independent of the primary Digital Data Service channel. SC allows customers to perform Network Management, diagnostic and maintenance applications on their Digital Data Networks.

Service availability limited. Refer to # footnote on Page 14-112.

(C)

(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.8 Digital Data Service# (Cont'd)(D) Optional Features and Functions (Cont'd)(3) Secondary Channel (Cont'd)

Secondary Channel is provided only at the 2.4, 4.8, 9.6 and 56 kbps DDS speeds and is available as a point-to-point or multipoint service except for multipoint service at 56 Kbps. Due to transmission equipment restrictions, SC cannot be provided on 56 Kbps circuits that require the installation of Loop Repeater equipment.

The Secondary Channel option is only available on new orders for service. The addition of SC to an existing Digital Data Service will be treated as a disconnect of the existing service and a new connect for the service with SC.

The Technical specifications for this feature are as described in Technical Reference TR-NPL-000157, Issue 2. The bit rates of the SC are as shown in the following table:

<u>Digital Data Channel Transmission Speed</u>	<u>Secondary Channel Transmission Speed</u>
2.4 Kbps	133 bps
4.8 Kbps	266 bps
9.6 Kbps	533 bps
56.0 Kbps	2.666 Kbps

The following table shows the technical specifications packages with which the optional features and functions are available.

	<u>Available with Technical Specifications Package DA-</u>			
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>
Central Office Bridging Capability	X	X	X	X
Secondary Channel	X	X	X	X

Service availability limited. Refer to # footnote on Page 14-112.

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(Issued under Transmittal No. 1418)

Issued: March 11, 2021

Effective: March 26, 2021

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)
7.2 Service Descriptions (Cont'd)

(D)

(D)

(Issued under Transmittal No. 1364)

Issued: January 2, 2018

Effective: January 17, 2018

Vice President, Federal Regulatory
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7. Special Access Service (Cont'd)
7.2 Service Descriptions (Cont'd)

$$\begin{array}{c} \text{(D)} \\ \vdots \\ \text{(D)} \end{array}$$

(D)

Effective: January 17, 2018

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

(D)

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(Issued under Transmittal No. 1364)

Issued: January 2, 2018

Effective: January 17, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

(D)

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(Issued under Transmittal No. 1364)

Issued: January 2, 2018

Effective: January 17, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

7. Special Access Service (Cont'd)

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Issued: January 2, 2018

Effective: January 17, 2018

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service

(A) Basic Channel Description

A High Capacity channel is a channel for the digital transmission of 1.544 or 44.736 Mbps isochronous serial data. The actual bit rate and framing format is a function of the channel interface selected by the customer. High Capacity channels are provided between customer designated premises, between a customer designated premises and a Telephone Company Hub, between a customer designated premises and a wire center where connection to an advanced data service# occurs. High Capacity channels may also be connected to the following Telephone Company provided services, provided that such connections are technically and operationally feasible, as determined by the Telephone Company:

in-service integrated optical service
in-service point to point SONET service

(1) DS1 High Capacity/1.544 Mbps Service

DS1 service (a 1.544 Mbps facility) is provided with an electrical interface.

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(2) DS3 High Capacity/44.736 Mbps Services

DS3 service is available in standard channel termination configurations and is provided with an electrical interface.

Advanced data services include frame relay services and ATM-cell relay services.

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(A) Basic Channel Description (Cont'd)

(2) DS3 High Capacity/44.736 Mbps Services (Cont'd)

DS3 channels can be connected at the wire center serving that premises to individual terminating DS3 channels, individual DS3 channels for multiplexing at designated Hubs, or to other DS3 services for multi-DS3 premises-to-premises connections. DS3 Channel Mileage and the DS3 to DS1 multiplexing function are detariffed. (D)
(C)

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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7. Special Access Service (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(2) Reserved.

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Central Office Multiplexing is detariffed.

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Issued: December 2, 2019

Effective: December 17, 2019

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7. Special Access Service (Cont'd)

7.2.9 High Capacity Service (Cont'd)

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(a) CCC is an arrangement that allows a customer to transport 1.536 Mbps information rate signals over a 1.544 Mbps High Capacity channel or a 1.544 Mbps High Capacity channel subtending from a multiplexed 44.736 Mbps High Capacity channel with no constraint on the quantity or sequence of ones (mark) and zero (space) bits. This arrangement requires the customer signal at the channel interface to conform to Bipolar with Eight Zero Substitution (B8ZS) line code as described in Technical References GR-54-CORE, Issue 1, and GR-342-CORE, Issue 1.

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(4) Clear Channel Capability (CCC) (Cont'd)

- (b) CCC is provided on 1.544 Mbps High Capacity channels between two customer designated premises and on multiplexed 44.736 High Capacity channels or multiplexed 1.544 High Capacity channels* between a telephone company Hub office and a customer designated premises, and is subject to the availability of facilities.
- (c) The optional feature may be ordered at the same time the High Capacity service is ordered or it may be ordered as an addition to an existing High Capacity service. Customers must agree to out-of-service periods required to add this feature to an existing High Capacity service.

* Available only in a DS1-to-Digital Multiplexed Configuration.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(D) Optional Features and Functions (Cont'd)

(5) Extended Superframe Format

Extended Superframe Format is an optional feature that passes a customer provided framing format for 1.544 Mbps High Capacity service. Extended Superframe Format extends the customer's 1.544 Mbps framing structure from 12 to 24 frames and divides the 8 Kbps 193rd bit position pattern into three distinct functionalities: 2 kbps for frame synchronization, 2 kbps for cyclic redundancy checking, and 4 kbps used for performance monitoring information.

Certain material previously found on this page can now be found on Original Page 7-70.2.

(Issued under Transmittal No. 1103)

Issued: August 18, 2010

Effective: September 2, 2010

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(6) Shared Network Arrangement

- (a) A Shared Network Arrangement is a service offering that enables a customer (the "Service User") to connect subtending services to the multiplexed High Capacity service or IntelliMux® service of another customer (the "Host Subscriber"), with the Telephone Company maintaining separate records and billing for each. Each customer will be billed for those rate elements associated with his own portion of the service configuration. Under no circumstances will the rates or charges for individual rate elements be split. This offering is limited to service configurations where a Service User obtains either subtending Voice Grade or Digital Data Service circuits from a Host's multiplexed DS1 service, or DS1 circuits from a Host's multiplexed DS3 service. (D)
- (b) Under the Shared Network Arrangement, the Telephone Company may share with the host subscriber record information pertaining to the services of other users of the shared network. Such disclosure will be under the sole discretion of the Telephone Company as is necessary to perform billing reconciliations and/or other functions required in connection with maintaining account records.
- (c) Section 7.4.14 contains rate regulations specific to Shared Network Arrangements.

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(Issued under Transmittal No. 1392)

Issued: March 1, 2019

Effective: March 16, 2019

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.9 High Capacity Service (Cont'd)

(D) Optional Features and Functions

(7) Alternate Serving Wire Center

- (a) Alternate Serving Wire Center (ASWC) is an optional feature which provides a transmission path for a High Capacity Service between the customer's designated premises and a serving wire center separate from the normal serving wire center.
- (b) The Telephone Company will designate the serving wire center to be used as the alternate. The ASWC feature is available where contiguous wire centers with adjacent fiber feeder routes exist. Where facilities are not available, Special Construction rates and regulations may apply as set forth in the appropriate Special Construction tariff. Where service is available, provisioning is based on a Negotiated Interval as described in 5.2.1(B) preceding.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

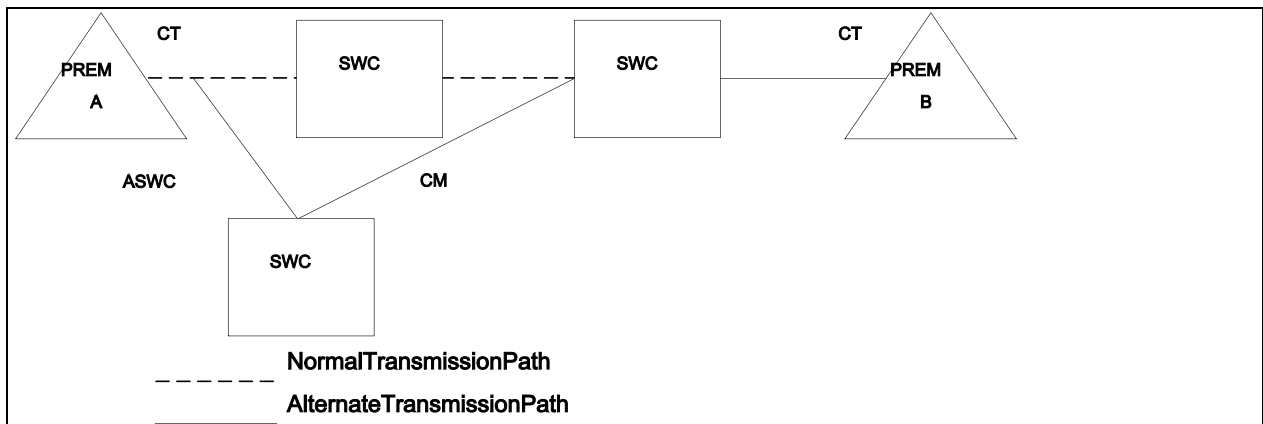
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2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)(7) Alternate Serving Wire Center (Cont'd)

- (c) The monthly rate for Alternate Serving Wire Center associated with a Non-Competitive End User Channel Termination, as specified in 7.5.9(C) (5) following, applies per point of termination, and is in addition to the Channel Terminations and Channel Mileage rates and charges for each High Capacity service provided over the alternate path. (D)

Example: Rate application for a High Capacity service connecting two Non-Competitive End User Channel Terminations via ASWC.

Rate ElementsApplicable Charges

2 Channel Terms (CT)	Monthly and nonrecurring
Channel Mileage (CM) (detariffed)	Monthly
1 ASWC	Monthly

(Issued under Transmittal No. 1409)

Issued: July 17, 2020

Effective: August 1, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1392)

Issued: March 1, 2019

Effective: March 16, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.9 High Capacity Service (Cont'd)(D) Optional Features and Functions (Cont'd)

The following table shows the technical specifications packages with which the optional features and functions are available.

	Available with Technical Specifications Package HC-				
	<u>0</u>	<u>1</u>	<u>1C</u>	<u>3</u>	
					(D)
					(D)
Clear Channel Capability		X		X	
Extended Super Frame Format				X	

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.10 Reserved for Future Use

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(Issued under Transmittal No. 1409)

Issued: July 17, 2020

Effective: August 1, 2020

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.11 Reserved for Future Use

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(Issued under Transmittal No. 1406)

Issued: May 26, 2020

Effective: June 13, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D. C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

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(Issued under Transmittal No. 1406)

Issued: May 26, 2020

Effective: June 13, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D. C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

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(Issued under Transmittal No. 1406)

Issued: May 26, 2020

Effective: June 13, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

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(Issued under Transmittal No. 1406)

Issued: May 26, 2020

Effective: June 13, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

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(Issued under Transmittal No. 1406)

Issued: May 26, 2020

Effective: June 13, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

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(Issued under Transmittal No. 1406)

Issued: May 26, 2020

Effective: June 13, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

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(Issued under Transmittal No. 1406)

Issued: May 26, 2020

Effective: June 13, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

7. Special Access Service (Cont'd)

7.2.12 IntelliMux® Service

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Issued: December 2, 2019

Effective: December 17, 2019

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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7. Special Access Service (Cont'd)

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Effective: December 17, 2019

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory (T)
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7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory (T)
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

7.2.13 Reserved for Future Use

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(This page filed under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

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(Issued under Transmittal No. 1368)

Issued: February 28, 2018

Effective: March 15, 2018

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7.2.14 Reserved for Future Use

(D)

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 IntelliLight Services (Cont'd)

(A) General (Cont'd)

Technical specifications are delineated in the following Technical References:	(T)
	(T)
GR-253-CORE, Issue 4	(C) (x)
"Synchronous Optical Network (SONET) Transport Systems: Common Generic Criteria"	
GR-1374-CORE, Issue 1	(T)
"SONET Inter-Carrier Interface Physical Layer Generic Criteria for Carriers"	
ANSI T1.105.01-2000 (R2005)	(C) (x)
"Synchronous Optical Network (SONET) - Basic Description including Multiplex Structure, Rates and Formats"	
IEEE 802.3-2005/Cor2/D2.0-2007, Telecommunications and information exchange between systems-Local and Metropolitan Areas Networks-Specific Requirements-Part 3.	(C) (x)
IEEE 802.3z-1998, Supplement to Standard for Information Technology-Local and Metropolitan Area Networks, Part 3.	(C) (x)

- (x) GR-253-CORE, Issue 4, replaces GR-253-CORE, Issue 3, in its entirety.
IEEE 802.3-2005/Cor2/D2.0-2007 replaces ANSI X3.802.3 in its entirety.
IEEE 802.3z-1998 replaces ANSI X3.802.3z in its entirety.
ANSI T1.105.01-2000 (R2005) replaces ANSI T1.105-1995 in its entirety.

(Issued under Transmittal No. 1037)

Issued: August 27, 2009

Effective: September 11, 2009

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)7.2 Service Descriptions (Cont'd)7.2.14 IntelliLight Services (Cont'd)

(B) Definitions

Add/Drop Multiplexing, (ADM): a multiplexing function that allows lower level signals to be added or dropped from an optical carrier channel.

Customer Access Ring, (CAR): a survivable fiber ring that is constructed through at least two Central Offices/Wire Centers. Cars utilize unidirectional path-switched ring ADMs, typically operating at OC3 and OC12 rates.

Enhanced DSR node: See also the definition of Node following. An enhanced DSR node, available after March 20, 2003, provides additional feature functionality that is not available with the existing first-generation DSR nodes. Enhanced DSR nodes are capable of supporting DS1 and Gigabit Ethernet ports at the OC12, OC48 and OC192 levels. (T) (T) (T)

Fiber path diversity: the provision of service using at least two fibers placed on physically separate paths, i.e., different conduit runs that do not pass through the same manhole(s). The cable paths are separated by at least 25 feet.

High Speed Interface: a DSR or IOTS rate element on a partial ring service that allows high speed interconnection of the Company's facilities to the facilities of the customer or of a third party. High speed interconnection is provided at a fiber meet location that is mutually agreed upon by the Company and the customer. (T)

Node: a DSR rate element and a designation of either a customer location or Company wire center on a SONET ring that has ADM capability. It is also the address of where a channelized (lower speed) service originates or terminates on a ring. Generally, the ring capacity determines the type of node. For DSR, see also Enhanced DSR node. (T) (T) (T)

(Issued under Transmittal No. 640)

Issued: November 14, 2005

Effective: November 29, 2005

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Optical Carrier Rate, (OC #): a SONET transmission signal/speed, line rate, or service. The rates are in multiples of an OC1, which is equivalent to an STS1 (51.84 Mbps), SONET's basic rate.

<u>OC(%) Rate</u>	<u>Bandwidth Capacity</u>
3	155.52 Mbps
12	622.08 Mbps
48	2.488 Gbps
192	9.952 Gbps

Optical Carrier Rate Concatenated, (OC#c): a "clear channel" SONET transmission using only one framing format. Generally, an OC3 signal provides three STS1s frame formats with 3 overheads for a total capacity of 2268 bytes per Synchronous Payload envelope (SPE) frame; in an OC3c signal, one STS3c frame format is used with one overhead, increasing the total payload capacity to 2340 bytes per SPE frame.

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(Issued under Transmittal No. 299)

Issued: March 5, 2003

Effective: March 20, 2003

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(B) Definitions (Cont'd)

OC12/3, (OC12 over 3): a node designation that denotes a ring line rate of OC12, but with port interface capability and capacity equal to OC3. An OC12 DSR could have one, some or all OC12/3 nodes.

OC12+3, OC48+3, OC192+3, OC192+12, and OC192+48: designations for nodes in ring-on-ring designs; the higher speed ADM is part of the true ring, and the lower speed ADM is connected for the purpose of mapping lower speed services onto the STS1s of the OC12, OC48 or OC192. Both nodes, the lower and higher speed node, of a ring-on-ring arrangement must be located in the same customer premises or wire center.

Port: a DSR rate element that denotes the interface at which a channelized or lower speed service terminates or originates at a DSR node.

Port Node: an arrangement on a DSR that interconnects the main DSR ring with a subtending DSR ring. (N)
(N)

SONET, (Synchronous Optical NETwork): an international standard for the transmission of high capacity bandwidth over optical facilities. This synchronous transmission platform utilizes a modular multiplexing approach. Because of the large bandwidth, some of the payload is used to monitor, protect, manage and improve the transmission of the signal.

Subtending Ring: a DSR Service that subtends (interconnects with) a DSR main ring. (N)
(N)

Synchronous Transport Signal Level, (STS1): a 51.84 Mbps signal that is the electrical equivalent of the OC1 or a DS3 with additional Mbps devoted to SONET overhead information. An STS1 can carry a DS3 or 28 DS1s when specifically formatted (Mapped). These DS1s may be accessed off-ring using the tariffed DS3 to DS1 multiplexing optional service or at an enhanced node via a DS3 Transmux port.

Transmuxing: the function of a DSR DS3 Transmux port that performs a DS3 to DS1 conversion at a DSR Enhanced Node. The DS3 to DS1 conversion allows a single DSR DS3 Transmux port (which includes a DS3 Transmux Facility to which the DS1 circuits are mapped) to be a facility associated with up to twenty-eight (28) VT1.5 mapped DSR DS1 ports. Such DS3 Transmux Facility will be provisioned upon ordering the associated DS1 Transmux port. Transmuxing within the DSR network retains DS1 visibility allowing for full, proactive maintenance capability of the DS1 signals.

Virtual Tributary, (VT): A SONET structure designed for transport of sub-STS1 payloads. A DS1 is mapped into the SONET format using a VT1.5 as a packaging mechanism that is internal to the SONET signal.

(Issued under Transmittal No. 689)

Issued: April 3, 2006

Effective: April 18, 2006

Vice President, Federal Regulatory
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Effective: November 29, 2005

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Effective: November 29, 2005

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Effective: November 29, 2005

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Issued: November 14, 2005

Effective: November 29, 2005

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Effective: November 29, 2005

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Effective: November 29, 2005

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Issued: November 14, 2005

Effective: November 29, 2005

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Effective: November 29, 2005

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Effective: November 29, 2005

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Effective: December 17, 2019

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1300 I Street, NW, Washington, DC 20005 (T)

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(This page filed under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory (T)
1300 I Street, NW, Washington, DC 20005 (T)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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(3) Reserved for Future Use

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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(This page filed under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

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(C) Service Descriptions (Cont'd)

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Issued: January 16, 2007

Effective: January 31, 2007

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Description (Cont'd)

(D)

(D)

(Issued under Transmittal No. 767)

Issued: January 16, 2007

Effective: January 31, 2007

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

(D)

(D)

(Issued under Transmittal No. 767)

Issued: January 16, 2007

Effective: January 31, 2007

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

(D)

(D)

(Issued under Transmittal No. 767)

Issued: January 16, 2007

Effective: January 31, 2007

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

(D)

(D)

(Issued under Transmittal No. 767)

Issued: January 16, 2007	Effective: January 31, 2007
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Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

(D)

(D)

(Issued under Transmittal No. 767)

Issued: January 16, 2007

Effective: January 31, 2007

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

(D)

(D)

(Issued under Transmittal No. 767)

Issued: January 16, 2007	Effective: January 31, 2007
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Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

(D)

(D)

(Issued under Transmittal No. 767)

Issued: January 16, 2007

Effective: January 31, 2007

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

(D)

(D)

(Issued under Transmittal No. 767)

Issued: January 16, 2007

Effective: January 31, 2007

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

(D)

(D)

(Issued under Transmittal No. 767)

Issued: January 16, 2007

Effective: January 31, 2007

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.2 Service Descriptions (Cont'd)

(D)

(D)

(Issued under Transmittal No. 767)

Issued: January 16, 2007

Effective: January 31, 2007

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes

This section explains the Channel Interface codes and Network Channel codes that the customer must specify when ordering Special Access Service. Included is an example which explains the specific characters of the code, a glossary of Channel Interface codes, impedance levels, Network Channel codes and compatible Channel Interfaces.

Example: If the customer specifies a MT Network Channel Code and a 2DC8-3 Channel Interface at the customer's premises, the following is being requested:

MT = Metallic Channel with a Predefined Technical Specification Package (1)
2 = Number of physical wires at customer premises
DC = Facility interface for direct current or voltage
8 = Variable impedance level
3 = Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)

7.3.1 Glossary of Channel Interface Codes and Options

<u>Code</u>	<u>Option</u>	<u>Definition</u>	
AC -		accepts 20 Hz ringing signal at customer's end user's point of termination	(D)
AH -		analog high capacity interface	(D)
- B		60 kHz to 108 kHz (12 channels)	
- C		312 kHz to 552 kHz (60 channels)	
- D		564 kHz to 3084 kHz (600 channels)	
CT -		Centrex Tie Trunk Termination	
CX -		Digital Termination on a Switch	
DA -		data stream in VF frequency band at customer's end user's point of termination	(D)
			(D)
DC -		direct current or voltage	
- 1		monitoring interface with series RC combination (McCulloch format)	(T)
- 2		Telephone Company energized alarm channel	
- 3		Metallic facilities (DC continuity) for direct current/low frequency control signals or slow speed data (30 baud)	

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>
DD -		DATAPHONE Select-A-Station (and TABS) interface at customer's point of termination
DE -		DATAPHONE Select-A-Station (and TABS) interface at the customer's end user's point of termination
DS -		digital hierarchy interface
- 15		1.544 Mbps (DS1) format per PUB 62411 and Supplement A plus D4
- 15B		1.544 Mbps (DS1) format per PUB 62411 and Supplement A plus D4 with B8ZS clear channel capability
- 15E		8-bit PCM encoded in one 64 Kbps of the DS1 signal
- 15F		8-bit PCM encoded in two 64 Kbps of the DS1 signal
- 15G		8-bit PCM encoded in three 64 Kbps of the DS1 signal
- 15H		14/11-bit PCM encoded in six 64 Kbps of the DS1 signal
- 15J		1.544 Mbps format per Technical Reference GR-54-CORE, Issue 1
- 15K		1.544 Mbps format per Technical Reference GR-54-CORE, Issue 1, plus extended framing format
- 15L		1.544 Mbps (DS1) with SF signaling
- 15S		1.544 Mbps (DS1) with B8ZS clear channel capability per Technical Reference Technical Reference GR-342-CORE, Issue 1, plus extended framing
- 44		44.736 Mbps (DS3)
44A		44.736 Mbps (DS3) unchannelized and C-Bit Parity per GR-342
44I		44.736 Mbps (DS3) with C-Bit Parity format
- 44L		44.736 Mbps (DS3) with SF signaling

(D)
(D)

(Issued under Transmittal No. 1385)

Issued: November 30, 2018

Effective: December 15, 2018

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>	
DU -		digital access interface	(M) (y)
- 19		19.2 kbps	(M) (y)
- 24		2.4 Kbps	(M) (y)
- 24S		2.4 Kbps with secondary channel	(M) (y)
- 48		4.8 Kbps	(M) (y)
- 48S		4.8 Kbps with secondary channel	(M) (y)
- 56		56.0 Kbps	(M) (y)
- 56S		56.0 Kbps with secondary channel	(M) (y)
- 64		64.0 kbps	(M) (y)
- 96		9.6 Kbps	(M) (y)
- 96S		9.6 Kbps with secondary channel	(M) (y)
- A		1.544 Mbps format per Technical Reference GR-54-CORE, Issue 1	(C) (x) (y)
- B		1.544 Mbps format per Technical Reference GR-54-CORE, Issue 1 plus D4	(C) (x) (y)
- D		1.544 Mbps (DS1) format per Technical Reference GR-54-CORE, Issue 1, plus D4 with B8ZS clear channel capability	(C) (x) (y)
- C		1.544 Mbps format per Technical Reference GR-54-CORE, Issue 1, plus extended framing format	(C) (x) (y)
- S		1.544 Mbps (DS1) with B8ZS clear channel Capability per Technical Reference GR-54-CORE, Issue 1, plus extended framing	(M) (y)

(x) GR-54-CORE, Issue 1, replaces PUB 62411, PUB 62411A, and TR-NPL-000054 in their entirety.

(y) Certain material currently appearing on this page previously appeared on Original Page 7-140

(Issued under Transmittal No. 1037)

Issued: August 27, 2009

Effective: September 11, 2009

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>	
DY -		duplex signaling interface at customer's end user's point of termination	(D)
EA -	E	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.	(D)
EA -	M	Type I E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.	
EB -	E	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on E Lead.	
EB -	M	Type II E&M Lead Signaling. Customer at POT or customer's end user at POT originates on M Lead.	
EC -		Type III E&M signaling at customer POT	
EX -	A	tandem channel unit signaling for loop start or ground start and customer supplies open end (dial tone, etc.) functions.	
EX -	B	tandem channel unit signaling for loop start or ground start and customer supplies closed end (dial pulsing, etc.) functions.	(D)
GO -		ground start loop signaling - open end function by customer or customer's end user	
GS -		ground start loop signaling - closed end function by customer or customer's end user	
	C	Centrex foreign exchange termination	
	M	for terminating in central office located answering service concentrator	(D)

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>	
IA -		E.I.A. (25 pin RS-232)	
LA -		end user loop start loop signaling - Type A OPS registered port open end	
LB -		end user loop start loop signaling - Type B OPS registered port open end	
LC -		end user loop start loop signaling - Type C OPS registered port open end	(D)
			(D)
LO -		loop start loop signaling - open end function by customer or customer's end user	(D)
			(D)
LS -		loop start loop signaling - closed end function by customer or customer's end user	
NO -		no signaling interface, transmission only	
OP -		Optical Parameter	
-	F	Facility	(D)
			(D)

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.1 Glossary of Channel Interface Codes and Options (Cont'd)

<u>Code</u>	<u>Option</u>	<u>Definition</u>	
PR -		protective relaying*	
RV -	O	reverse battery signaling, one way operation, originate by customer	
	T	reverse battery signaling, one way operation, terminate function by customer or customer's end user	
SF -		single frequency signaling with VF band at customer's end user POT	(D)
SO -		SONET/SONET Digital Hierarchy Optical Interface	
SN -		SONET Network	
	F	Facility	
TF -		telephotograph interface	(D)
			(D)

* Available only for the transmission of audio tone protective relaying signals used in the protection of electric power systems during fault conditions.

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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7. Special Access Service (Cont'd)

$$\begin{array}{c} \text{(D)} \\ \vdots \\ \text{(D)} \end{array}$$

The nominal reference impedance with which the channel will be terminated for the purpose of evaluating transmission performance:

<u>Value (ohms)</u>	<u>Code (s)</u>
110	0
150	1
600	2
900	3+
135	5
75	6
124	7
Variable	8
100	9

- + For those interface codes with a 4-wire transmission path at the customer (T) designated POT, rather than a standard 900 ohm impedance, the code (3) denotes a customer provided transmission equipment termination. Such terminations were provided to customers in accordance with the F.C.C. Docket No. 20099 Settlement Agreement.

Effective: January 22, 2014

(T)
(T)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.3 Digital Hierarchy Channel Interface Codes (4DS)

This interface is available to customers that select the multiplexed four-wire DSX-1 or higher facility interface option at the customer designated premises. Customers who have installed multiplexed DS1 systems to a Facility Hub and are connecting individual facilities to these systems to complete service arrangements will be requested to provide subsequent system and channel assignment data. Customers who request these interfaces in conjunction with other compatible non digital interfaces without system and channel assignment data will be provided service, where facilities permit, on Telephone Company DS1 Facilities Inventory. The various digital bit rates in the digital hierarchy employ the channel interface code 4DS9, 4DS0 or 4DS6 plus the speed options indicated below:

<u>Electrical Interface Code and Speed Option</u>	<u>Nominal Bit Rate (Mbps)</u>	<u>Digital Hierarchy Level</u>
4DS9-15	1.544	DS1
4DS6-44	44.736	DS3

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(D)

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(D)

(Issued under Transmittal No. 1385)

Issued: November 30, 2018

Effective: December 15, 2018

Vice President, Federal Regulatory (T)
1300 I Street, NW, Washington, DC 20005 (T)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.4 Service Designator/Network Channel Code Conversion Table

The purpose of this table is to show the relationship between the service designator codes (e.g., VGC, etc.) and the network channel codes that are used for various administrative purposes.

(D)

<u>Service Designator Code</u>	<u>Network Channel Code</u>
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(D)

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(D)

VGC	LQ
VG1	LB
VG2	LC

(Issued under Transmittal No. 1363)

Issued: December 18, 2017

Effective: January 2, 2018

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.4 Service Designator/Network Channel Code Conversion Table
(Cont'd)

<u>Service Designator</u> <u>Code</u>	<u>Network Channel</u> <u>Code</u>
VG3	LD
VG4	LE
VG5	LF
VG6	LG
VG7	LH
VG8	LJ
VG9	LK
VG10	LN
VG11	LP
VG12	LR
WAC	SE
WAC	SF

(D)
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(D)

DA1	XA
DA2	XB
DA3	XG
DA4	XH
DA5	XE
DA6	YN
HC0	HS
HC1	HC
HC1C	HD
HC3	HF
HC3C	HF, QTY 3

(D)
(D)

(Issued under Transmittal No. 1409)

Issued: July 17, 2020

Effective: August 1, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces

The following tables show the channel interface codes (CIs)
which are compatible:

(A) Reserved

(C)

(D)

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(D)

(B) Reserved

(C)

(D)

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(D)

(D)

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(D)

(Issued under Transmittal No. 1363)

Issued: December 18, 2017

Effective: January 2, 2018

Vice President, Federal Regulatory (T)
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AB2	4AB2	4AH6-C	4DA2	4AH6-D	2DY2
		4AH6-C	2DA2	4AH6-C	9DY2
4AB2	4AC2			4AH6-C	9DY3
4AB3	4AC2	4AH5-B	6DA2	4AH6-C	6DY2
4AB2	2AC2	4AH5-B	4DA2	4AH6-C	6DY3
4AB3	2AC2	4AH5-B	2DA2	4AH6-C	4DY2
2AB2	2AC2			4AH6-C	2DY2
2AB3	2AC2	4AH6-D	4DE2	4AH5-B	9DY2
		4AH6-C	4DE2	4AH5-B	9DY3
4AB2	4SF2	4AH5-B	4DE2	4AH5-B	6DY2
4AB3	4SF2	4AH6-D	2DE2	4AH5-B	6DY3
4AC2	4AC2	4AH6-C	2DE2	4AH5-B	4DY2
4AC2	2AC2	4AH5-B	2DE2	4AH5-B	2DY2
4AH6-D	4AC2	4AH6-D	4DX3	4AH6-D	9EA2
4AH6-D	2AC2	4AH6-C	4DX3	4AH6-D	9EA3
4AH6-C	4AC2	4AH5-B	4DX3	4AH6-D	6EA2-E
4AH6-C	2AC2	4AH6-D	4DX2	4AH6-D	6EA2-M
4AH5-B	2AC2	4AH6-C	4DX2	4AH6-D	4EA2-E
4AH5-B	4AC2	4AH5-B	4DX2	4AH6-D	4EA2-M
				4AH6-C	9EA2
4AH6-D	2CT3	4AH6-D	9DY2	4AH6-C	9EA3
4AH6-C	2CT3	4AH6-D	9DY3	4AH6-C	6EA2-E
4AH5-B	2CT3	4AH6-D	6DY2		
		4AH6-D	6DY3		
4AH6-D	6DA2	4AH6-D	4DY2		
4AH6-D	4DA2				
4AH6-D	2DA2				
4AH6-C	6DA2				

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH6-C	6EA2-M	4AH6-D	6GS2	4AH6-D+	2LO2
4AH6-C	4EA2-E	4AH6-D	4GS2	4AH6-C+	2LO3
4AH6-C	4EA2-M	4AH6-D	2GS3*	4AH6-C+	2LO2
4AH5-B	9EA2	4AH6-D	2GS2	4AH5-B+	2LO3
4AH5-B	9EA3	4AH6-C	6GS2	4AH5-B+	2LO2
4AH5-B	6EA2-E	4AH6-C	4GS2		
4AH5-B	6EA2-M	4AH6-C	2GS3*	4AH6-D+	4LR2
4AH5-B	4EA2-E	4AH6-C	2GS2	4AH6-D+	2LR2
4AH5-B	4EA2-M	4AH5-B	6GS2	4AH6-C+	4LR2
		4AH5-B	4GS2	4AH6-C+	2LR2
4AH6-D	8EB2-E	4AH5-B	2GS3*	4AH5-B+	4LR2
4AH6-D	8EB2-M	4AH5-B	2GS2	4AH5-B+	2LR2
4AH6-D	6EB2-E				
4AH6-D	6EB2-M	4AH6-D	2LA2	4AH6-D+	6LS2
4AH6-C	8EB2-E	4AH6-C	2LA2	4AH6-D+	4LS2
4AH6-C	8EB2-M	4AH5-B	2LA2	4AH6-D+	2LS2
4AH6-C	6EB2-E			4AH6-D+	2LS3**
4AH6-C	6EB2-M	4AH6-D	2LB2	4AH6-C+	6LS2
4AH5-B	8EB2-E	4AH6-C	2LB2	4AH6-C+	4LS2
4AH5-B	8EB2-M	4AH5-B	2LB2	4AH6-C+	2LS2
4AH5-B	6EB2-E			4AH6-C+	2LS3**
4AH5-B	6EB2-M	4AH6-D	2LC2	4AH5-B+	6LS2
		4AH6-C	2LC2	4AH5-B+	4LS2
4AH6-D	2G02	4AH5-B	2LC2	4AH5-B+	2LS2
4AH6-D	2G03			4AH5-B+	2LS3**
4AH6-C	2G02	4AH6-D	2LO3		
4AH6-C	2G03				
4AH5-B	2G02				
4AH5-B	2G03				

* The "C" and "M" options as described in 7.3.1 preceding are also available with this combination (i.e., 2GS3-C or 2GS3-M).

** The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 2LS3-M).

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4AH6-D	4NO2	4AH6-D	4TF2	2CT3	4SF2	4DS9-*	4AC2
4AH6-D	2NO2	4AH6-D	2TF2	2CT3	4SF3	4DS9-*	2AC2
4AH6-C	4NO2	4AH6-C	4TF2	2CT3	6EB2-E	4DS9-*	6DA2
4AH6-C	2NO2	4AH6-C	2TF2	2CT3	6EB2-M	4DS9-*	4DA2
4AH5-B	4NO2	4AH5-B	4TF2	2CT3	6EB3-E	4DS9-*	2DA2
4AH5-B	2NO2	4AH5-B	2TF2	2CT3	8EB2-E		
		2CT3	2CT3	2CT3	8EB2-M	4DS9-*	4DE2
4AH6-D	4PR2	2CT3	4DS9-*	2CT3	8EC2	4DS9-*	2DE2
4AH6-D	2PR2			4CT2	4DX2	4DS9-*	4DX3
4AH6-C	4PR2	2CT3	6DX2	4CT2	4DS9-*	4DS9-*	4DX2
4AH6-C	2PR2	2CT3	4DX2	4CT2	4SF2		
4AH5-B	4PR2	2CT3	4DX3	4CT2	6EA2-E		
4AH5-B	2PR2			4CT2	6EA2-M		
		2CT3	9DY3	4CT2	8EB2-E	4DS9-*	9DY3
4AH6-D	4RV2-T	2CT3	6DY3	4CT2	8EB2-M	4DS9-*	9DY2
4AH6-D	2RV2-T	2CT3	9DY2	4CT2	8EC2	4DS9-*	6DY3
				6DA2	6DA2		
4AH6-C	4RV2-T	2CT3	6DY2	6DA2	4DA2	4DS9-*	6DY2
4AH6-C	2RV2-T	2CT3	4DY2	6DA2	2DA2	4DS9-*	4DY2
			4DA2	4DA2			
4AH5-B	4RV2-T	2CT3	2DY2	4DA2	2DA2	4DS9-*	2DY2
4AH5-B	2RV2-T			2DA2	2DA2		
		2CT3	9EA3	4DB2	6DA2	4DS9-*	9EA2
4AH6-D	4SF2	2CT3	9EA2	4DB2	4DA2	4DS9-*	9EA3
4AH6-C	4SF2	2CT3	6EA2-E	4DB2	2DA2	4DS9-*	6EA2-E
4AH5-B	4SF2	2CT3	6EA2-M	2DB3	2DA2	4DS9-*	6EA2-M
4AH6-D	4SF3	2CT3	4EA2-E	2DB2	2DA2	4DS9-*	4EA2-E
4AH6-C	4SF3	2CT3	4EA2-M	4DB2	4DB2	4DS9-*	4EA2-M
4AH5-B	4SF3			4DB2	4NO2		
				4DB2	4NO2		
				2DB2	2NO2		
				4DB2	4PR2		
				4DB2	2PR2		
				2DB2	2PR2		
				4DD3	4DE2		
				4DD3	2DE2		

* See 7.3.3 preceding for explanation.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS9-*	8EB2-E	4DS9-*	4NO2	4DX3	9DY2
4DS9-*	8EB2-M	4DS9-*	2NO2	4DX2	6DY3
4DS9-*	6EB2-E			4DX3	6DY3
4DS9-*	6EB2-M	4DS9-*	4PR2	4DX2	6DY2
		4DS9-*	2PR2	4DX3	6DY2
4DS9-*	2GO2			4DX2	4DY2
4DS9-*	2GO3	4DS9-*	4RV2-T	4DX3	4DY2
		4DS9-*	2RV2-T	4DX2	2DY2
4DS9-*	6GS2	4DS9-*	2RV3-O	4DX3	2DY2
4DS9-*	4GS2	4DS9-*	4SF2		
4DS9-*	2GS2	4DS9-*	4SF3	6DX2	9EA3
4DS9-*	2GS3**			6DX2	9EA2
		4DS9-*	4TF2	6DX2	6EA2-E
4DS9-*	2LA2	4DS9-*	2TF2	6DX2	6EA2-M
				6DX2	4EA2-E
4DS9-*	2LB2	4DX2	4DX2	6DX2	4EA2-M
		4DX3	4DX2	4DX2	9EA2
4DS9-*	2LC2	4DX3	4DX3	4DX3	9EA2
				4DX2	9EA3
4DS9-*	2LO2	6DX2	9DY3	4DX3	9EA3
4DS9-*	2LO3	6DX2	9DY2	4DX2	6EA2-E
		6DX2	6DY3	4DX3	6EA2-E
4DS9-*	4LR2	6DX2	6DY2	4DX2	6EA2-M
4DS9-*	2LR2	6DX2	4DY2	4DX3	6EA2-M
		6DX2	2DY2	4DX2	4EA2-E
4DS9-*	6LS2	4DX2	9DY3	4DX3	4EA2-E
4DS9-*	4LS2	4DX3	9DY3	4DX2	4EA2-M
4DS9-*	2LS2	4DX2	9DY2	4DX3	4EA2-M
4DS9-*	2LS3***				

* See 7.3.3 preceding for explanation.

** The "C" and "M" options as described in 7.3.1 preceding are also available with this combination (i.e., 2GS3-C or 2GS3-M).

*** The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 2LS3-M).

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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ACCESS SERVICE

. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6DX2	8EB2-E	4DX2	6LS2	9DY2	6DY3
6DX2	8EB2-M	4DX3	6LS2	9DY3	4DY2
6DX2	6EB2-E	4DX3	4LS2	9DY2	4DY2
6DX2	6EB2-M	4DX2	4LS2	9DY2	2DY2
4DX2	8EB2-E	4DX3	2LS3*	9DY3	2DY2
4DX2	8EB2-M	4DX2	2LS3*	6DY3	6DY3
4DX3	8EB2-E	4DX3	2LS2	6DY3	6DY2
4DX3	8EB2-M	4DX2	2LS2	6DY2	6DY2
4DX2	6EB2-E	2DX3	2LS2	6DY3	4DY2
4DX2	6EB2-M	2DX3	2LS3*	6DY3	2DY2
4DX3	6EB2-E			6DY2	4DY2
4DX3	6EB2-M	4DX3	4RV2-T	6DY2	2DY2
		4DX2	4RV2-T	4DY2	2DY2
4DX2	2LA2	4DX3	2RV2-T	4DY2	4DY2
4DX3	2LA2	4DX2	2RV2-T	2DY2	2DY2
2DX3	2LA2	4DX2	2RV3-O	6EA2-E	4AC2
		6DX2	4SF2	6EA2-M	4AC2
4DX2	2LB2	4DX2	4SF2	6EA2-E	2AC2
4DX3	2LB2	4DX3	4SF2	6EA2-M	2AC2
2DX3	2LB2	4DX2	4SF3		
		4DX3	4SF3	9EA2	9DY3
4DX2	2LC2			9EA2	9DY2
4DX3	2LC2	9DY3	9DY3	9EA2	6DY3
2DX3	2LC2	9DY3	9DY2	9EA2	6DY2
		9DY2	9DY2	9EA2	4DY2
4DX2	2LO3	9DY3	6DY3	9EA2	2DY2
4DX3	2LO3	9DY3	6DY2	9EA3	9DY3
2DX3	2LO3	9DY2	6DY2		

* The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 2LS3-M).

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
9EA3	9DY2	4EA2-M	9DY2	4EA3-E	9EA2
9EA3	6DY3	4EA2-M	6DY3	4EA3-E	9EA3
9EA3	6DY2	4EA2-M	6DY2	4EA2-M	4EA2-M
9EA3	4DY2	4EA2-M	4DY2		
9EA3	2DY2	4EA2-M	2DY2	9EA2	8EB2-E
6EA2-E	9DY3			9EA2	8EB2-M
6EA2-E	9DY2	9EA2	9EA2	9EA2	6EB2-E
6EA2-E	6DY3	9EA2	9EA3	9EA2	6EB2-M
6EA2-E	6DY2	9EA2	6EA2-E	9EA3	8EB2-E
6EA2-E	4DY2	9EA2	6EA2-M	9EA3	8EB2-M
6EA2-E	2DY2	9EA2	4EA2-E	9EA3	6EB2-E
6EA2-M	9DY3	9EA2	4EA2-M	9EA3	6EB2-M
6EA2-M	9DY2	9EA3	9EA3	6EA2-E	8EB2-E
6EA2-M	6DY3	9EA3	6EA2-E	6EA2-E	8EB2-M
6EA2-M	6DY2	9EA3	6EA2-M	6EA2-E	6EB2-E
6EA2-M	4DY2	9EA3	4EA2-E	6EA2-E	6EB2-M
6EA2-M	2DY2	9EA3	4EA2-M	6EA2-M	8EB2-E
4EA2-E	9DY3	6EA2-E	6EA2-E	6EA2-M	8EB2-M
4EA2-E	9DY2	6EA2-E	6EA2-M	6EA2-M	6EB2-E
4EA3-E	9DY3	6EA2-M	6EA2-M	6EA2-M	6EB2-M
4EA3-E	9DY2	6EA2-E	4EA2-E	4EA2-E	8EB2-E
4EA3-E	6DY3	6EA2-E	4EA2-M	4EA2-E	8EB2-M
4EA3-E	6DY2	6EA2-M	4EA2-E	4EA3-E	8EB2-E
4EA3-E	4DY2	6EA2-M	4EA2-M	4EA3-E	8EB2-M
4EA3-E	2DY2	4EA2-E	4EA2-E	4EA2-E	6EB2-E
4EA2-E	6DY3	4EA3-E	6EA2-E	4EA2-E	6EB2-M
4EA2-E	6DY2	4EA3-E	6EA2-M	4EA3-E	6EB2-E
4EA2-E	4DY2	4EA3-E	4EA2-E	4EA3-E	6EB2-M
4EA2-E	2DY2	4EA3-E	4EA2-M	4EA2-M	8EB2-E
4EA2-M	9DY3	4EA2-E	4EA2-M		

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4EA2-M	8EB2-M	9EA3	4SF2	6EB3-E	9DY2
4EA2-M	6EB2-E	9EA2	4SF2	6EB3-E	9DY3
4EA2-M	6EB2-M	6EA2-E	4SF3	6EB2-E	6DY2
		6EA2-M	4SF3	6EB3-E	6DY2
6EA2-E	2LA2	6EA2-E	4SF2	6EB2-E	6DY3
6EA2-M	2LA2	6EA2-M	4SF2	6EB3-E	6DY3
		4EA3-E	4SF2	6EB2-E	4DY2
6EA2-E	2LB2	4EA2-E	4SF2	6EB3-E	2DY2
6EA2-M	2LB2	4EA2-M	4SF2	6EB3-E	4DY2
				6EB2-M	9DY2
6EA2-E	2LC2	8EB2-E	4AC2	6EB2-M	9DY3
6EA2-M	2LC2	8EB2-M	4AC2	6EB2-M	6DY2
		8EB2-E	2AC2	6EB2-M	6DY3
6EA2-E	2LO3	8EB2-M	2AC2	6EB2-M	4DY2
6EA2-M	2LO3			6EB2-E	2DY2
		8EB2-E	9DY3	6EB2-M	2DY2
6EA2-E	6LS2	8EB2-E	9DY2		
6EA2-M	6LS2	8EB2-E	6DY3	6EB3-E	9EA2
6EA2-E	4LS2	8EB2-E	6DY2	6EB3-E	9EA3
6EA2-M	4LS2	8EB2-E	4DY2	6EB3-E	6EA2-E
6EA2-E	2LS2	8EB2-E	2DY2	6EB3-E	6EA2-M
6EA2-M	2LS2	8EB2-M	9DY3	6EB3-E	4EA2-E
6EA2-E	2LS3*	8EB2-M	9DY2	6EB3-E	4EA2-M
6EA2-M	2LS3*	8EB2-M	6DY3		
		8EB2-M	6DY2	8EB2-E	8EB2-E
6EA2-E	4RV2-T	8EB2-M	4DY2	8EB2-E	8EB2-M
6EA2-M	4RV2-T	8EB2-M	2DY2	8EB2-M	8EB2-M
6EA2-E	2RV2-T	6EB2-E	9DY2	8EB2-E	6EB2-E
6EA2-M	2RV2-T				
6AE2-E	2RV3-O	6EB2-E	9DY3	8EB2-E	6EB2-M
6AE2-M	2RV3-O				

* The "M" option as described in 7.3.1 preceding is also available with this combination.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
8EB2-M	6EB2-E	8EB2-E	4RV2-T	8EC2	8EB2-M
8EB2-M	6EB2-M	8EB2-M	4RV2-T	8EC2	6EB2-E
6EB2-E	6EB2-E	8EB2-E	2RV2-T	8EC2	6EB2-M
		8EB2-M	2RV2-T		
6EB2-E	6EB2-M	8EB2-E	2RV3-O		
6EB3-E	8EB2-E	8EB2-M	2RV3-O	8EC2	4SF2
6EB3-E	8EB2-M	8EB2-E	4SF2		
6EB2-M	6EB2-M	8EB2-M	4SF2	6EX2-B	2G03
		8EB2-E	4SF3		
8EB2-E	2LA2	8EB2-M	4SF3	6EX2-A	6GS2
8EB2-M	2LA2	6EB3-E	4SF2	6EX2-A	4GS2
		6EB2-E	4SF2	6EX2-A	2GS2
8EB2-E	2LB2	6EB2-M	4SF2	6EX2-A	2GS3**
8EB2-M	2LB2				
		8EC2	9DY2	6EX2-B	2LA2
8EB2-E	2LC2	8EC2	9DY3		
8EB2-M	2LC2	8EC2	6DY2	6EX2-B	2LB2
		8EC2	6DY3		
8EB2-E	2LO3	8EC2	4DY2	6EX2-B	2LC2
8EB2-M	2LO3	8EC2	2DY2		
				6EX2-B	2LO2
8EB2-E	6LS2	8EC2	9EA2	6EX2-B	2LO3
8EB2-M	6LS2	8EC2	9EA3		
8EB2-E	4LS2	8EC2	6EA2-E	6EX2-B	4LR2
8EB2-M	4LS2	8EC2	6EA2-M	6EX2-B	2LR2
8EB2-E	2LS2	8EC2	4EA2-E		
8EB2-M	2LS2	8EC2	4EA2-M	6EX2-A	6LS2
8EB2-E	2LS3*			6EX2-A	4LS2
8EB2-M	2LS3*	8EC2	8EB2-E	6EX2-A	2LS2
				6EX2-A	2LS3

* The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 2LS3-M).

** The "C" and "M" options as described in 7.3.1 preceding are also available with this combination (i.e., 2GS3-C or 2GS3-M).

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6EX2-A	4SF2	6LO2	6LS2	4LR2	4SF2
6EX2-B	4SF2	6LO2	4LS2	4LR3	4SF2
		6LO2	2LS2		
6GO2	6GS2	6LO2	2LS3**	6LS2	2LA2
6GO2	4GS2	4LO2	6LS2	4LS2	2LA2
6GO2	2GS2	4LO2	4LS2	4LS3	2LA2
6GO2	2GS3*	4LO3	6LS2	2LS2	2LA2
4GO2	6GS2	4LO3	4LS2	2LS3**	2LA2
4GO3	6GS2	4LO3	2LS3**		
4GO2	4GS2	4LO3	2LS2	6LS2	2LB2
4GO3	4GS2	4LO2	2LS2	4LS2	2LB2
4GO2	2GS2	4LO2	2LS3**	4LS3	2LB2
4GO2	2GS3*	2LO3	2LS3**	2LS2	2LB2
4GO3	2GS2	2LO3	2LS2	2LS3**	2LB2
4GO3	2GS3*	2LO2	2LS2		
2GO2	2GS2	2LO2	2LS3**	6LS2	2LC2
2GO3	2GS2			4LS2	2LC2
2GO2	2GS3*	6LO2	4SF2	4LS3	2LC2
2GO3	2GS3*	4LO2	4SF2	2LS2	2LC2
		4LO3	4SF2	2LS3**	2LC2
6GO2	4SF2				
4GO2	4SF2	4LR3	4LR2	6LS2	2LO3
4GO3	4SF2	4LR3	2LR2	6LS2	2LO2
		4LR2	4LR2	4LS2	2LO2
6GS2	2GO2	4LR2	2LR2	4LS2	2LO3
4GS2	4GO2	2LR2	2LR2	4LS3	2LO2
4GS2	2GO2	2LR3	2LR2	4LS3	2LO3
4GS3	2GO2				
4GS2	2GO3				

* The "C" and "M" options as described in 7.3.1 preceding are also available with this combination (i.e., 2GS3-G or 2GS3-M).

** The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 2LS3-M).

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
6LS2	4SF2	4SF3	9DY2	4SF3	2LA2
4LS3	4SF2	4SF2	9DY3		
		4SF3	6DY3	4SF2	2LB2
4NO2	6DA2	4SF2	6DY2	4SF3	2LB2
4NO2	4DA2	4SF2	6DY3		
4NO2	2DA2	4SF3	6DY2	4SF2	2LC2
2NO2	6DA2	4SF2	4DY2	4SF3	2LC2
2NO2	4DA2	4SF3	4DY2		
2NO2	2DA2				
4NO2	4DE2	4SF3	2DY2	4SF2	2LO3
4NO2	2DE2	4SF2	2DY2	4SF3	2LO3
4NO2	4NO2	4SF3	9EA2	4SF2	2LR2
4NO2	2NO2	4SF3	9EA3	4SF3	4LR2
2NO2	2NO2	4SF3	4EA2-E	4SF3	2LR2
2NO3	2NO2	4SF3	4EA2-M		
				4SF3	6LS2
2NO3	2PR2	4SF3	6EB2-E	4SF2	4LS2
		4SF3	6EB2-M	4SF3	4LS2
4RV2-O	4RV2-T			4SF2	2LS2
4RV2-O	2RV2-T	4SF2	2GO3	4SF2	2LS3**
2RV2-O	2RV2-T			4SF3	2LS2
2RV3-O	4RV2-T	4SF3	6GS2	4SF3	2LS3**
4RV2-O	4SF2	4SF2	6GS2		
		4SF2	4GS2	4SF3	4RV2-T
4SF2	4AC2	4SF3	4GS2	4SF2	4RV2-T
4SF2	2AC2	4SF2	2GS2	4SF2	2RV2-T
				4SF2	2RV3-O
		4SF2	2GS3*	4SF3	2RV2-T
4SF3	9DY3	4SF3	2GS2		
4SF2	9DY2	4SF3	2GS3*	4SF3	4SF3
		4SF2	2LA2		

* The "C" and "M" options as described in 7.3.1 preceding are also available with this combination (i.e., 2GS3-G or 2GS3-M).

** The "M" option as described in 7.3.1 preceding is also available with this combination (i.e., 2LS3-M).

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(C) Voice Grade (Cont'd)Compatible CIs

6LS2	4SF2
4LS3	4SF2
4NO2	6DA2
4NO2	4DA2
4NO2	2DA2

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(D) WATS Access Line Service

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>	
4DS9*	4DS9*	2LO3	4DS9*	2RV3-0	4RV2-0
2GO3	4DS9*	2LO3	2LS2	4RV2-0	4DS9*
2GO3	2GS2	2LO3	4LS2	4RV2-0	2RV2-T
2GO3	2GS3	4LO2	4DS9*	4RV2-0	2RV3-T
2GO3	4GS3	4LO2	2LS2	4RV2-0	4RV2-0
4GO2	4DS9*	4LO2	4LS2		
4GO2	2GS2	2RV3-0	4DS9*		
4GO2	2GS3	2RV3-0	2RV2-T		
4GO2	4GS2	2RV3-0	2RV3-T		

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
2980 Fairview Park Drive, Falls Church, Virginia 22042

ACCESS SERVICE

7. Special Access Service (Cont'd)

(D)

(D)

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory (T)
1300 I Street, NW, Washington, DC 20005 (T)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(G) Reserved for Future Use

(C)

(D)

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(D)

(Issued under Transmittal No. 1259)

Issued: January 7, 2014

Effective: January 22, 2014

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

(T)

(T)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

7.3.5 Compatible Channel Interfaces (Cont'd)

(H) Reserved for Future Use

(C)

(D)

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|

(D)

(Issued under Transmittal No. 1259)

Issued: January 7, 2014

Effective: January 22, 2014

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

(T)

(T)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(I) Digital Data

<u>Compatible CIs</u>		<u>Compatible CIs</u>		<u>Compatible CIs</u>		
4DS9-15	4DU5-24	4DS9-15	6DU5-48	4DU5-96	4DU5-96	(D)
4DS9-15	4DU5-48	4DS9-15	6DU5-56	6DU5-24	6DU5-24	
4DS9-15	4DU5-56	4DS9-15	6DU5-96	6DU5-48	6DU5-48	
4DS9-15	4DU5-96	4DU5-24	4DU5-24	6DU5-56	6DU5-56	
4DS9-15	6DU5-24	4DU5-48	4DU5-48	6DU5-96	6DU5-96	
		4DU5-56	4DU5-56			
4DS9-15	4DU5-24S	4DS9-15	6DU5-48S	4DU5-96S	4DU5-96S	
4DS9-15	4DU5-48S	4DS9-15	6DU5-56S	6DU5-24S	6DU5-24S	
4DS9-15	4DU5-56S	4DS9-15	6DU5-96S	6DU5-48S	6DU5-48S	
4DS9-15	4DU5-96S	4DU5-24S	4DU5-24S	6DU5-56S	6DU5-56S	
4DS9-15	6DU5-24S	4DU5-48S	4DU5-48S	6DU5-96S	6DU5-96S	
		4DU5-56S	4DU5-56S			
4DS9-15	4DU5-19					
4DS9-15	4DU5-64					
4DU5-19	4DU5-19					
4DU5-64	4DU5-64					

(D)
(D)

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory (T)
1300 I Street, NW, Washington, DC 20005 (T)

ACCESS SERVICE

7. Special Access Service (Cont'd)7.3 Channel Interface and Network Channel Codes (Cont'd)7.3.5 Compatible Channel Interfaces (Cont'd)(J) High CapacityCompatible CIsCompatible CIs

		4DS9-15	6DU8-B
		4DS9-15	4DU8-B
		4DS9-15J	6DU8-A
		4DS9-15J	4DU8-A
		4DS9-15K	6DU8-B
		4DS9-15K	4DU8-B
4DS6-44	4DS6-44	4DS9-15K	4DU8-C
4DS6-44	6DU8-A,B or C	4DS9-15K	4DU8-C
4DS6-44	4DU8-A,B or C		
4DS9-15J	4DS9-15J		
4DS9-15K	4DS9-15K	4DU8-A,B or C	4DU8-A,B or C
4DS6-44C	4DS9-15	4DS6-44	4DS9-15
4DS6-44C	4DS9-15J	4DS6-44	4DS9-15J
4DS6-44C	4DS9-15K	4DS6-44	4DS9-15K
4DS6-44C	4DU8-A,B or C	4DS6-44C	4DS6-44C
4DS6-44C	4DS6-44	4DS6-44	4DU9-D
4DS6-44C	6DU8-A,B or C	4DS6-44	4DU9-S
4DS6-44	2FCF-45	4DS6-44	4DU9-C
4DS6-44C	2FCF-13	4DS6-44	4DU9-B
4DS6-44G	2FCF-54	4DS6-44	4DS9-15B
2FCF-54	2FCF-54	4DS6-44	4DS9-15S
4DS6-44G	4DS6-44G	4DS9-15S	4DS9-15S
01FCF.X	01FCF.X	4DU9-D	4DU9-D
		4DU9-S	4DU9-S
4DS9-15B	4DS9-15B	4DS9-15B	4DU9-D
4DS9-15K	4DS9-15K	4DS9-15S	4DU9-S
4DS6.44A	4DS6.44A	4DS6.44I	4DS6.44I

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

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(Issued under Transmittal No. 1406)

Issued: May 26, 2020

Effective: June 13, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.3 Channel Interface and Network Channel Codes (Cont'd)

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(Issued under Transmittal No. 1409)

Issued: July 17, 2020

Effective: August 1, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations

Subject to Section 1.1 preceding, this section contains the specific regulations governing the rates and charges that apply for Special Access Service.

7.4.1 Types of Rates and Charges

There are two types of rates and charges. These are monthly rates and nonrecurring charges. Price Cap rates may be differentiated by "Rate Zones".

Rate Zones are defined in Section 2.6 and are listed in Section 14.6.

Competitive Counties and Non-Competitive Counties are defined in Section 2.6 and the wire centers within such counties are listed in Section 14.8.

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The three types of rates and charges are described as follows:

(A) Monthly Rates

Monthly rates are flat recurring rates that apply each month or fraction thereof that a Special Access Service is provided. For billing purposes, each month is considered to have 30 days.

(Issued under Transmittal No. 1409)

Issued: July 17, 2020

Effective: August 1, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.1 Types of Rates and Charges (Cont'd)

(A) Monthly Rates (Cont'd)

(1) Channel Termination Monthly Rates

The channel termination rate structure for DS3 High Capacity Services differs based upon whether or not the channel termination is at a Primary or Secondary Premises. A Primary Premises, which is detariffed, is a customer designated premises where a DS3 High Capacity Service circuit/channel is either originated or terminated. Only one end of the channel can be a Primary Premises. A Secondary Premises is any customer-designated premises other than the Primary Premises. (C)
(C)

If one end of a DS3 High Capacity Service channel is either connected to or derived from a higher speed facility (e.g., DSR), the customer location with the DS3 High Capacity channel termination is classified as a Secondary Premises. An alternately routed channel termination will have the same classification (primary or secondary) as the associated DS3 High Capacity Service channel termination. (C)
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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory (T)
1300 I Street, NW, Washington, DC 20005 (T)

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(A) Monthly Rates (Cont'd)

(1) Channel Termination Monthly Rates (Cont'd)

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A secondary premises channel termination monthly rate applies to channel terminations at secondary premises locations.

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory (T)
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7. Special Access Service (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

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Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges

Nonrecurring charges are one-time charges that apply for specific work activity (i.e., installation or change to an existing service). The types of nonrecurring charges that apply for Special Access Service are: installation of service, installation of optional features and functions, and service changes. (D)

The nonrecurring charge rate structure applicable to the installation of access service may consist of "first" and "additional" charges, except for DS3 Service Entrance Facilities and Channel Termination, where only one rate applies. For each rate element ordered, the "first" charges apply to the first rate element (e.g., port or channel termination) specified on the service order. The "additional" charges will apply to each additional same-type rate element specified on the same service order, with the same date due, and at or between the same end points. (D)

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(1) Installation of Service

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The nonrecurring charges apply to each rate element of the service installed. The nonrecurring charges for the installation of service are set forth in 7.5, 8, and 19.7 following as nonrecurring charges for Channel Termination, Termination, Transport Channel, Port Node Entrance Ring, Collocated Interconnection Cross-Connect Service or SPOT Bay Frame and Terminations rate elements, etc. (See Note below.)

When a newly installed service is added to a Commitment Discount Plan (as specified in Section 25.1 following), or the National Discount Plan (as specified in Section 25.3 following), the Channel Termination nonrecurring charge which applies to such installed service is \$1.00.

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Note: See Section 19 following for further information.

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

(2) Installation of Optional Features and Functions

Separate nonrecurring charges apply for the installation of some of the optional features and functions available with Special Access Service. The charge applies whether the feature or function is installed coincident with the initial installation of service or at any time subsequent to the installation of the service. (D)

Some optional features under this tariff for which separate nonrecurring charges apply are: (T)

- Voice Grade Data Capability (D)

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Changes

Service changes are changes to existing (installed) services which do not result in either a change in the minimum period requirements as set forth in 5.2.5 preceding (e.g., change from one type of Special Access Service to another or a change from one type of channel termination to another) or a change in the physical location of the point of termination at a customer designated premises. Changes in the type of service (i.e. type of service termination), Collocated Interconnection Cross-Connect Service or SPOT Bay Frame and Terminations, are treated as disconnects and starts. Changes in the physical location of the point of the termination at the customer premises are treated as moves and are described and charged for as set forth in 7.4.5 following. Certain changes in the physical location of the point of termination in a wire center are treated as detariffed rearrangements.

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The charge to the customer for a service change is dependent on whether the change is administrative only in nature or involves actual physical change to the service.

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.1 Types of Rates and Charges (Cont'd)(c) Nonrecurring Charges (Cont'd)(3) Service Charges (Cont'd)

Administrative changes will be made without charge(s) to the customer. Such changes require the continued provision and billing of the Access Service to the same customer (i.e., same customer remains responsible for all outstanding indebtedness for the Access Service). Administrative changes are as follows:

- Change of customer name (i.e., the customer of record does not change but rather the customer of record changes its name -- e.g., AT&T-Long Lines to AT&T Communications),
- Change of customer or customer's end user premises address when the change of address is not a result of a physical relocation of equipment,
- Change in billing data (name, address, or contact name or telephone number),
- Change of agency authorization,
- Change of billing account number,
- Change of customer test line number,
- Change of customer or customer's end user contact name or telephone number,
- Change of jurisdiction, and
- Change of customer-designated circuit identification at customer's request.

All other service changes will be charged for as follows:

- If the change involves the addition of another leg to an existing multipoint service, the nonrecurring change charge for the channel termination rate element will apply. The charge will apply only for the leg that is being added.
- If the change involves the addition of an optional feature or function which has a separate nonrecurring charge, that nonrecurring charge will apply.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.1 Types of Rates and Charges (Cont'd)(C) Nonrecurring Charges (Cont'd)(3) Service Changes (Cont'd)

- If the change involves changing the type of signaling on a Voice Grade service, a charge equal to the Voice Grade channel termination rate element first nonrecurring change charge will apply. The charge will apply per service termination affected.
- If the change involves the addition of B8ZS and/or ESF options to an existing high capacity DS1 service, or the addition of a B8ZS to an existing high capacity DS3 service, a charge equal to the channel termination first non-recurring change charge will apply for each channel termination converted. This rate application does not apply when either of these options are initially ordered with the service.
- A change from a two-point Special Access Service without bridging to multipoint service or from a multipoint to two-point Special Access Service without bridging will be treated as discontinuance and installation of service.

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- For all other changes, including the addition of optional features without separate nonrecurring charges, a charge equal to a channel termination rate element first nonrecurring change charge will apply. Only one such charge will apply per service, per charge.
- For changes involving the screening, or other end office features, associated with WATS Access Line Service, the following charge applies:

Rate
The rearrangement
charge specified in
6.8.1(C) (3) preceding.

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(Issued under Transmittal No. 1385)

Issued: November 30, 2018

Effective: December 15, 2018

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.1 Types of Rates and Charges (Cont'd)

(C) Nonrecurring Charges (Cont'd)

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(5) Reserved.

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.2 Surcharge for Special Access Service(A) General

Special access services provided under this tariff may be subject to the monthly Special Access Surcharge.

(B) Application

- (1) The Special Access Surcharge will apply to each interstate Special Access Service that terminates on an end user's PBX or other device where, through a function of the device, the Special Access Service interconnects to the local exchange network. Interconnection functions include but are not limited to wiring and software functions, bridging, switching or patching of calls or stations. The Surcharge will apply irrespective of whether the interconnection function is performed in equipment located at the customer's premises or in a Centrex Co-type switch.
- (2) Special Access Service will be exempted from the Surcharge by the Telephone Company upon receipt of the customer's written certification for the following Special Access Service terminations:
 - (a) an open-end termination in a Telephone Company switch of an FX line, including CCSA and CCSA-equivalent ONALs; or
 - (b) an analog channel termination that is used for radio or television program transmission; or
 - (c) a termination used for TELEX service; or
 - (d) a termination that by the nature of its operating characteristics could not make use of Telephone Company common lines; or
 - (e) a termination that interconnects either directly or indirectly to the local exchange network where the usage is subject to Carrier Common Line charges* such as, where the private line facility access only FGA and no local exchange lines, or private line facility between customer points of termination, or private line facility connecting CCSA or CCSA-type equipment (inter-machine trunks); or

* Resellers of WATS Access Line Service may be exempted from paying CCL Charges during the transition period of June 1, 1986 to January 1, 1987. However, they must certify for exemption of the Special Access Surcharge on the WAC.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.2 Surcharge for Special Access Service (Cont'd)(B) Application (Cont'd)

(f) a termination that the customer certifies to the Telephone Company is not connected to a PBX or other device that has not been blocked by either hardware or software partitioning restrictions from connecting the private line facility to a local exchange subscriber line.

(g) A termination of WATS Access Line Service which is used for resold WATS.

(C) Exemption of Special Access Service

(1) Special Access Services which are terminated as set forth in 7.4.2(B) preceding will be exempted from the Special Access Surcharge if the customer provides the Telephone Company with written exemption certification. The certification may be provided to the Telephone Company (1) at the time the Special Access Service is ordered or installed; (2) at such time as the service is reterminated to a device incapable of interconnection to local exchange facilities, or (3) at such time as the service becomes associated with a Switched Access Service that is subject to Carrier Common Line Charges.

(2) The exemption certification is to be provided by the customer ordering the services. The certification must be signed by the customer or authorized representative and include the category of exemption, as set forth in 7.4.2 (B) (3) preceding, for each termination, and the date which the exemption is effective.

(3) The customer shall also notify the Telephone Company when an exempted Special Access Service is changed or reterminated such that the exemption is no longer applicable.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.2 Surcharge for Special Access Service (Cont'd)(C) Exemption of Special Access Service (Cont'd)

- (4) The Telephone Company will work cooperatively with the customer to resolve any questions regarding the exemption certification. However, the Telephone Company reserves the right to request additional information from the customer, when necessary, to assure qualifications for exemption of the Surcharge are met. In addition, the Telephone Company may withhold exemption of the service until the dispute is resolved.
- (5) Any WATS resellers who had WATS lines in service as of March 13, 1986 will be exempted from the Special Access Surcharge for those lines only during the transition period of June 1, 1986 to January 1, 1987.

(D) Rate Regulations

- (1) The Surcharge applies to each channel of a Special Access Service and per voice grade equivalent service derived from a Special Access Service as shown in the following example:

<u>Special Access Service</u>	<u>Voice Grade Equivalent</u>		<u>Surcharge</u>	<u>Monthly Charge</u>
DS1	24	X	\$25 =	\$600.00

One Surcharge will apply for each termination of a multipoint Special Access Service at a customer's designated premises.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.2 Surcharge for Special Access Service (Cont'd)(D) Rate Regulations (Cont'd)

(2) The Telephone Company will bill the appropriate Special Access Surcharge to the ordering customer for each interstate Special Access Service installed unless exemption certification is provided as set forth in 7.4.2 (C) preceding.

(3) If a written certification is not received at the time the Special Access Service is obtained, the Surcharge will be applied. Exempt status will become effective on the certification date indicated by the customer, subject to the regulations set forth in (4) following.

(4) Crediting the Surcharge

Payment of any Special Access Surcharge billed on WATS Access Lines, in service as of June 1, 1986, may be deferred, without penalty, for up to ninety (90) days from the date of the first bill rendered for the Special Access Surcharge.

If appropriate exemption certification is not received by the Telephone Company by the end of the ninety (90) days deferral period, the billed Special Access Surcharges will become due. These charges, if unpaid, will be subject to a late payment charge as set forth in Section 2.4.1 (B) (2) preceding.

The Telephone Company will cease billing the Special Access Surcharge when certification, as set forth in 7.4.2 (C) preceding, is received. If the status of the Special Access Service was changed prior to receipt of the exemption certification, the Telephone Company will credit the customer's account, not to exceed ninety (90) days, based on the effective date of the change as specified by the customer in the letter of certification.

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(Issued under Transmittal No. 1392)

Issued: March 1, 2019

Effective: March 16, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.3 Message Station Equipment Recovery Charge

The Message Station Equipment Recovery Charge is a charge to recover that portion of message station equipment that is assigned to Special Access Service.

Pursuant to CC Docket No. 83-1145 Memorandum Opinion and Order adopted by the Federal Communications Commission on November 8, 1984 and released on November 9, 1984, this charge is assessed only to those customers to which the Special Access Surcharge applies. The rate for the Message Station Equipment Recovery Charge is set forth in 7.5.13 following.

Payment of any Message Station Equipment Recovery Charge billed on WATS Access Lines, in service as of June 1, 1986, may be deferred, without penalty, for up to ninety (90) days from the date of the first bill rendered for the Message Station Equipment Recovery Charge.

If appropriate exemption certification is not received by the Telephone Company by the end of the ninety (90) days deferral period, the billed Message Station Equipment Recovery Charge will become due. These charges, if unpaid, will be subject to a late payment charge as set forth in Section 2.4.1 (B) (2) preceding.

(Issued under Transmittal No. 23)

Issued: April 13, 2001

Effective: April 28, 2001

Vice President
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(A)	The minimum service period for all services except Digital Data Service, and DS1 and DS3 High Capacity is one month.	(D) (D)
		(D) (D) (D)
		(D) (D)
		(D) (D)
(1)	The minimum service period for Digital Data Service and DS1 High Capacity services is two months.	(T)
(2)	The minimum service period for a DS3 High Capacity service that is provided under a month-to-month payment plan is one year.	(D)
		(D)
(B)	The minimum service period for IntelliLight Entrance Facility services is set forth in 7.2.15(E).	(T) (T)
		(D) (D)

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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.4 Minimum Periods (Cont'd)

- (C) The minimum service period for Verizon Optical Networking is set forth in 7.2.20(E).
- (D) The minimum service period for a service that is included in a Commitment Discount Plan is specified in Section 25.1.10 following.
- (E) The minimum service period for a Special Access DS3 Service or a Special Access DS1 Service that is included in the National Discount Plan is specified in Section 25.3.8 following.

(Issued under Transmittal No. 811)

Issued: May 25, 2007

Effective: June 9, 2007

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.5 Moves

A move involves a change in the physical location of the customer's premises which also involves a connection to a different rate demarcation point.

The charges for the move are dependent on whether the move is to a new location within the same building or to a different building.

(A) Moves Within the Same Building

When the move is to a new location within the same building, the charge for the move will be an amount equal to one half of the first nonrecurring (i.e., installation) charge for the service termination affected. There will be no change in the minimum period requirements.

(B) Moves To a Different Building

Moves to a different building will be treated as a discontinuance and start of service and all associated nonrecurring charges will apply. New minimum period and/or Service Discount Plan requirements will be established for the new services. The customer will also remain responsible for satisfying all outstanding minimum period and/or termination liability charges for the discontinued service except as specified in 25.2.5 following.

Certain material previously found on this page can now be found on Original Page 7-178.1.

(Issued under Transmittal No. 1351)

Issued: August 31, 2017

Effective: September 15, 2017

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.6 Reserved for Future Use

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.7 Facility Hubs

A customer has the option of ordering Voice Grade facilities or analog or digital high capacity facilities (i.e., Group, Supergroup, Mastergroup, DS1 or DS3) to a facility Hub for distributing or channelizing to individual services requiring lower capacity facilities (e.g., Voice, etc).

When analog or digital high capacity facilities are provided between a customer premises and a facility Hub, the facility will not be considered an end-to-end service until an associated channelized service is installed. The facility Hub will not be considered as a customer premises.

End to end services may be provided on channels of these facilities to a Hub. The transmission performance for the end to end service provided between customer designated premises will be that of the lower capacity or bit rate. For example, when a 1.544 Mbps facility is multiplexed to voice frequency channels, the transmission performance of the channelized services will be Voice Grade, not High Capacity.

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.7 Facility Hubs (Cont'd)

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The Telephone Company will commence billing the monthly rate for the facility to the Hub on the date specified by the customer on the service order. Additional individual services utilizing these facilities may be installed coincident with the installation of the facility to the Hub, or may be ordered and/or installed at a later date, at the option of the customer. The customer who orders the High Capacity Service must order all associated individual Access Channelized Services. The customer will be billed for a Voice Grade or a high capacity analog or digital Non-Competitive End User Channel Termination, detariffed Channel Mileage (when applicable), and the detariffed multiplexer at the time the facility is installed. Additional individual service rates (by service type) will apply for a Non-Competitive End User Channel Termination and for additional detariffed Channel Mileage (as required) for each subsequent channelized service. These will be billed to the customer as each individual service is installed.

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Cascading multiplexing occurs when a high capacity analog or digital channel is de-multiplexed to provide channels with a lesser capacity and one of the lesser capacity channels is further de-multiplexed. For example, a Supergroup facility is de-multiplexed to five Group facilities and then one of the Group facilities is further de-multiplexed to individual Voice Grade channels.

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(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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7. Special Access Service (Cont'd)

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Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.8 Shared Use Digital High Capacity Services

Shared use occurs when Special Access Service and Switched Access Service are provided over the same High Capacity Special Access Service through a common interface. The facility will be ordered, provisioned and rated as Special Access Service (i.e., Channel Termination, Channel Mileage as appropriate, and Multiplexer and a terminating channelized individual service by Channel Type, and Channel Mileage, as appropriate) until such time as the customer chooses to use a portion of the available capacity for providing Switched Access Service. In certain Shared Used cases, the customer for the Special Access Service and Switched Access Service may be different. A Switched Access customer may, with proper authorization, order Switched Access directly to the Special Access customer's DS1 to VG multiplexer. In situations where the Switched Access order consists of 24 same Line-side or Trunk-side Switched Access connections between the same End Office and/or Tandems, the Switched Access customer may, with proper authorization, order directly to a DS1 port on a DS3 multiplexer.

When individual channels on a DS3 Service Arrangement are activated for Switched Access Service, the rates for DS1 Channel Terminations, DS3 Standard Channel Terminations, and the associated mileage and Multiplexing services will be reduced, based on their rates and capacity, accordingly (e.g., 1/24th for a DS1 service, 1/672nd for DS3 service). All of the above DS3 service rate elements are subject to the provisions of Section 7.4.13 (E), following. This reduction provision does not apply to channels used to provision WATS Access Line Service since it is Special Access.

When a Special Access DS1 Service or Special Access DS3 Service is part of a Shared Use Arrangement, and such service is also included in a National Discount Plan (NDP) as set forth in Section 25.3 following, the NDP discounts as set forth in Section 25.3.5 following must be applied before any rates are reduced or applied under this Section 7.4.8.

(Issued under Transmittal No. 1409)

Issued: July 17, 2020

Effective: August 1, 2020

Vice President, Federal Regulatory
1300 I Street, NW, Washington, D.C. 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.8 Shared Use Digital High Capacity Services (Cont'd)

Switched Access Service rates and charges as set forth in 6.8 preceding will apply for each channel of the shared use facility that is used to provide Switched Access Service. Where Special Access Service is provided utilizing a channel of the shared facility to the Hub or High Capacity rates and charges will apply for the facility to the Hub as set forth preceding and individual service rates and charges will apply from the Hub to the customer designated premises. The rates and charges that will apply to the portion from the Hub to the customer designated premises will be dependent on the specific type of Special Access Service that is provided (e.g., Voice Grade, etc.) The applicable rates and charges will include a Non-Competitive End User Channel Termination rate and detariffed Channel Mileage, if applicable. Rates and charges for optional features and functions associated with a Non-Competitive End User Channel Termination, if any, will apply as set forth in 7.5 following. The customer must place an order for each individual Switched or Special Access Service utilizing the Shared Use Facilities and specify the channel assignment for each such service.

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Should the customer displace (reduce) the entire capacity of the Special Access High Capacity Service with Switched Access Service, the Special Access Service will, for billing purposes, be considered disconnected. Any future capacity due to a customer's disconnect of Switched Access Service will be considered Telephone Company inventory. Should the customer subsequently order Special Access Service, this will be treated as a new order and full rates and charges for the Special Access Service type ordered, as set forth in 7.5 following will apply.

7.4.9 Reserved

(Issued under Transmittal No. 1400)

Issued: December 2, 2019

Effective: December 17, 2019

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.10 Special Access Rate Exceptions(D)
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Services provided by the Telephone Company to connect a customer location to an Interexchange Access Frame Relay Switch (XA-FRS) will be rated as a channel termination. A channel termination at the XA-FRS switch serving office and channel mileage from the customer serving wire center to the XA-FRS switch are not applicable under the provisions of this service.

Certain terms and conditions and rates associated with the provision of Telephone Company services may be waived or excepted. These individual instances of terms and/or conditions exemptions are contained in Section 7.4, following.

(Issued under Transmittal No. 1406)

Issued: May 26, 2020

Effective: June 13, 2020

Vice President, Federal Regulatory
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

7.4.11 WATS Access Line Service#

A WATS Access Connection is only provisioned between a customer's premises and a WATS Serving Office (WSO) and there is only one application of the WATS Access Connection Charge. However, there can be additional secondary connections (USOC XEE), which are individual WACs and each will receive the same WAC Connection Charge. These WAC Secondary Connections must always be provisioned via C.O. Bridging.

7.4.12 Reserved for Future Use

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Service availability limited. Refer to # footnote on Page 7-29.

(Issued under Transmittal No. 1351)

Issued: August 31, 2017

Effective: September 15, 2017

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

(D)

(D)

(Issued under Transmittal No. 1351)

Issued: August 31, 2017

Effective: September 15, 2017

Vice President, Federal Regulatory
1300 I Street, NW, Washington, DC 20005

ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

(D)

(D)

(Issued under Transmittal No. 1351)

Issued: August 31, 2017

Effective: September 15, 2017

Vice President, Federal Regulatory (T)
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ACCESS SERVICE

7. Special Access Service (Cont'd)

7.4 Rate Regulations (Cont'd)

(D)

(D)

(Issued under Transmittal No. 1351)

Issued: August 31, 2017

Effective: September 15, 2017

Vice President, Federal Regulatory (T)
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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.13 DS3 High Capacity Services#(A) Payment Plans# and Minimum Periods

Recurring charges for DS3 Services are rated and charged monthly for all commitment plans; Month-to-Month, 3# and 5-year# Term Pricing Plans (TPPs). TPPs are provided with Base Rates as described in Section (B) following and as set forth in 7.5.9 following. (T)
Although a TPP may include a circuit that is provided only in part under this tariff, the Telephone Company manages a TPP for an individual circuit as a single plan and applies tariffed and detariffed rates, terms and conditions as applicable#. (T)

The minimum service period for DS3 is 12 months.

At the end of a term plan, the customer will not be eligible to receive discounted monthly rates. Non-discounted Month-to-Month rates will apply. (D)

Should a customer terminate service prior to completing the minimum period or the plan term period, termination liability may be applicable. Termination liability for the portion of the circuit provided under this tariff is assessed on Non-Competitive End User Channel Termination rate elements. A customer who disconnects the service will be treated as having terminated the service. (D)

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Effective May 30, 2019, orders for new 5-Year DS3 TPPs are no longer permitted. Subject to Section 1.1. preceding, the Telephone Company will continue to provide 5-Year DS3 TPPs pursuant to this Section 7.4.13 on any existing 5-Year DS3 TPP that was in-service as of May 30, 2019, or any order for 5-Year DS3 TPP that was placed with the Telephone Company prior to May 30, 2019 (collectively, Existing 5-Year DS3 TPPs), subject to the following conditions:

- The Telephone Company will continue to provide Existing 5-Year DS3 TPPs for the selected commitment period until (i) the customer discontinues service; or (ii) the current commitment period expires, whichever comes first.
- Renewal of an Existing 5-Year DS3 TPP is not permitted.
- Moves and changes are permitted provided that they do not require a new commitment period.

Effective November 15, 2022, orders for new 3-Year DS3 TPPs are no longer permitted. Subject to Section 1.1. preceding, the Telephone Company will continue to provide 3-Year DS3 TPPs pursuant to this Section 7.4.13 on any existing 3-Year DS3 TPP that was in-service as of November 15, 2022, or any order for 3-Year DS3 TPP that was placed with the Telephone Company prior to November 15, 2022 (collectively, Existing 3-Year DS3 TPPs), subject to the following conditions: (N)

- The Telephone Company will continue to provide Existing 3-Year DS3 TPPs for the selected commitment period until (i) the customer discontinues service; or (ii) the current commitment period expires, whichever comes first.
- Renewal of an Existing 3-Year DS3 TPP is not permitted.
- Moves and changes are permitted provided that they do not require a new commitment period.

In light of the above, Month-to-Month is the only DS3 TPP that remains available effective as of November 15, 2022. All references in this tariff to DS3 TPPs other than Month-to-Month are intended as references to any such DS3 TPPs that were grandfathered under the above provisions. Any such references may not be interpreted to mean new DS3 TPPs other than Month-to-Month are available or that expiring DS3 TPPs other than Month-to-Month may be renewed or extended. (N)

(Issued under Transmittal No. 1431)

Issued: October 31, 2022

Effective: November 15, 2022

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.13 DS3 High Capacity Services#(B) Base Rates

The rates charged under 3-Year and 5-year TPPs are based (C)
upon Base Rates as specified in Section 7.5.9
following. Such rates may change during the commitment
period, but in no case will the Base Rate exceed the
non-discounted monthly rate for the service. In order
to calculate the rates the customer will pay, the
following discount percentages are applied to the Base
Rates Monthly Rate Per CT for 3-Year and 5-Year TPPs
for DS3 High Capacity Channel Terminations and Optional
Features and Functions. Discount percentages are not
applied to nonrecurring rates.

3-Year#	10%
5-Year#	35%

(T)

Service availability limited. Refer to # footnote on Page 7-197.

(Issued under Transmittal No. 1431)

Issued: October 31, 2022

Effective: November 15, 2022

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ACCESS SERVICE

7. Special Access Service (Cont'd)
7.4 Rate Regulations (Cont'd)
7.4.13 DS3 High Capacity Services# (Cont'd)
(C) Discontinuance Without Liability

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A request to disconnect DS3 High Capacity Service in order to replace it with a Replacing Service pursuant to the Technology Migration regulations set forth in Section 2.9 preceding.

Service availability limited. Refer to # footnote on Page 7-197.

(Issued under Transmittal No. 1431)

Issued: October 31, 2022

Effective: November 15, 2022

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ACCESS SERVICE

7. Special Access Service (Cont'd)7.4 Rate Regulations (Cont'd)7.4.13 DS3 High Capacity Services# (Cont'd)(C) Discontinuance Without Liability (Cont'd)

For TPPs established prior to December 17, 2019, in the event that the Telephone Company initiates a rate increase and the discounted monthly rate for the affected service increases, in aggregate, by eight percent (8%) or more, the customer may cancel its TPP for the affected service without termination liability. The customer must exercise its option to cancel the TPP for the affected service within thirty (30) days of the date of the effective rate increase.

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Service availability limited. Refer to # footnote on Page 7-197.

(Issued under Transmittal No. 1431)

Issued: October 31, 2022

Effective: November 15, 2022

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